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MONTHLY PROGRESS REPORT NO. 1

for the period March 1-31, 1976

to

ENVIRONMENTAL PROTECTION AGENCY

REGION VIII

Colorado Cb Tract

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for the period March 1-31, 1976

to

ENVIRONMENTAL PROTECTION AGENCY

REGION VIII

1860 Lincoln St., Suite 900

Denver, CO 80203

Contract No. 68-01-1946

by

Aeromet, Inc.

Box FF

Norman, OK 73069

June 12, 1976

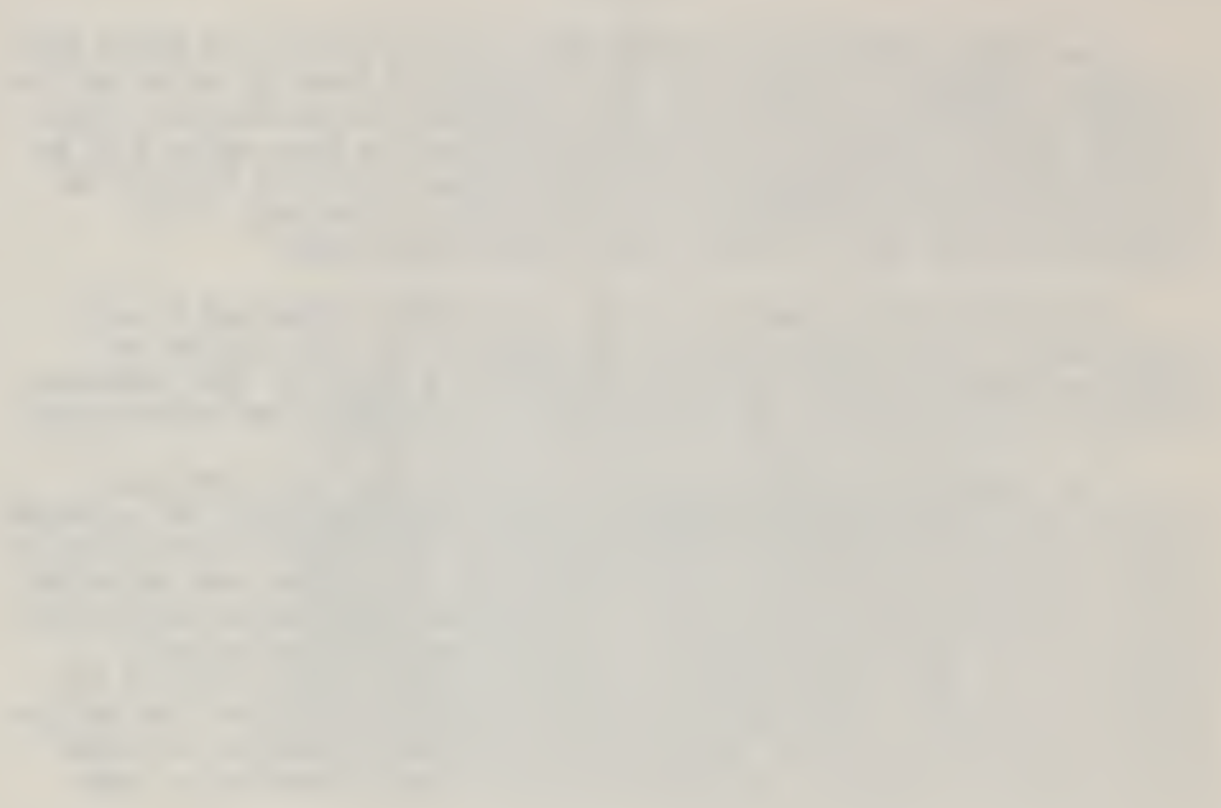
COLORADO Cb TRACT

1.0 INTRODUCTION

Low level temperature and wind data were collected for March 1976 at Casper, Wyoming; the Shell Oil Co. Colorado CB Tract 25 miles west of Rio Blanco, Colorado; Craig, Colorado; Escalante and Hanksville, Utah; and Rock Springs, Wyoming. The data collection was made using a 30 gm pilot balloon with a temperature sonde attached, a single theodolite and a TSR-2 receiver/recorder twice a day every other day. The observations were made 1/2 hour after sunrise and 1400L.

The pilot balloon had an ascent rate of 600 ft/min and it was tracked by a single theodolite for 12 minutes with the azimuth and elevation angles recorded every 30 seconds on a cassette tape recorder. The tape was transcribed to a pilot balloon form after the observation.

The temperature sonde operated at 403 MHz and the signal was received by a ground plane antenna at least 24 ft AGL which was attached to the Aeromet, Inc. TSR-2 receiver/recorder. The TSR-2 receiver has a built in Rustrak strip chart recorder and the temperature was recorded within the range from -50 to +50°C. A baseline temperature calibration was performed with each T-Sonde by the adjustment of the recorded temperature to match the thermometer measured temperature next to the transmitting sonde. Once the calibration check was finished the balloon was released with the sonde attached and the temperature was recorded for at least 20 minutes. At the completion of each observation the data was mailed to Aeromet, Inc.



2.0 DATA SUMMARY

2.1 Field Site Summary

The temperature and wind data collection sites at Escalante and Hanksville, Utah; Craig and the Colorado CB Tract in Colorado; and Casper and Rock Springs, Wyoming were set up during the 10 day period from 12 February to 21 February 1976. The equipment and the observers were checked out with a minimum of 3 sample observations. The observers were instructed to practice as many observations as necessary the last week in February to be ready for a start date of 1 March. The observers did not take advantage of the practice week and as a result the problems were not discovered until after the start date.

Typical problems discovered by the observers consisted of the receiver losing lock on the sonde transmitted signal and the batteries in the cassette tape recorders running down. The problem of the tape recorders was solved by the middle of March when rechargeable batteries and a battery charger were sent to each site. The problem of the receiver not maintaining lock on the sonde frequency was not as easily solved. The receiver had been modified to better meet the needs demanded of it and this was the first field test for it. The laboratory tests and the tests conducted by Aeromet, Inc. did not demonstrate the problem as it was being experienced at each of the 6 field sites. Attempts were made to duplicate the problem and the suggestions were passed to the observers. By the 9th of March suggestions had been made to lengthen the balloon train, operate the receiver with the AFC off and adjust the receiver frequency lower than the sonde frequency since the sonde transmitted frequency drifted down as time and distance increased. The problem had not been solved so the observers at Escalante, Utah were instructed through some test launches recording at one minute intervals the receiver frequency that best matched the sonde frequency. The field tests were completed on 10 March and suggestions were made to alleviate the problem, only if the observer would take the time, but this wasn't always the case. The tests on the receiver continued by Aeromet, Inc. through 15 March when it was discovered that the high gain antenna used had dead areas in the receiving hemisphere about the antenna and the sonde transmitted signal was lost when the sonde passed through these areas. New antennas were ordered for each site and the old antennas were temporarily modified until the new ones were delivered. It was also discovered during the tests on the receiver that the linearizer in the receiver was bad and each observer was talked through the procedures to correct the problem. Corrections were applied to the temperature data when processing to correct the temperature values for observations made prior to the modification of the receiver.

Equipment problems were not the only cause of data loss for the month of March. The observers at Casper and Rock Springs, Wyoming refused to carry on the observations after the 15th and the 11th respectively.

After 15 March the observer at Craig, Colorado made the observations only when he felt like doing them. Because of the approximate 1 week lag in receiving the data from each site the problem at Craig was not known the week of 21 March when new observers were chosen and trained at Casper and Rock Springs, Wyoming. Phone conversations with the observer at Craig promised a better observation record so no changes were made. The secondary observer at Craig worked for the primary observer and difficulties were also experienced in having him make the observations.

The data recovery record at Casper, Wyoming did not improve with the choosing of a new observer. The nozzle to fill the pilot balloons developed a leak and the last week in March passed away before the problem was known by Aeromet, Inc.

The data collection record for each of the six field sites are as follows; 40% at Casper, 100% at the Colorado CB Tract, 47% at Craig, 97% at Escalante, 87% at Hanksville and 22% at Rock Springs. These figures are for the observation attempts and do not necessarily include both temperature and wind data.

2.2 Mixing Layer Height

The average mixing layer height was derived subjectively from the morning and afternoon temperature profiles. The morning sounding was near the minimum temperature while the afternoon sounding was near the maximum temperature providing a good comparison for defining an average mixing layer height. If the mixing layer height derived from only the morning sounding for the lower 2000m was not maintained throughout the day because of temperature changes due to advection, then one was not defined to exist. A blank indicates there were insufficient data to calculate a mixing layer height. It is still contended that for the proper scientific evaluation and interpretation of the mixing layer height that an objective method be used. Further library research on the topic is under way.

2.3 Stability and Inversion Classification

The temperature and wind data were edited to remove data felt to cause anomalous results in the stability and inversion classification schemes. Only the stations listed prior to the table classifying the inversions were used in the calculations.

3.0 DATA PROCESSING

3.1 Printed and Plotted Output

Wind speeds and directions are computed from the azimuth and elevation angles measured while tracking the balloon with the theodolite. The wind speed and direction are plotted versus height and printed out at 30 second intervals. The printed output includes the AGL and MSL height of the calculated wind value and the orthognal components of the wind. The wind profile is also punched on computer cards at 30 second intervals.

The temperature data are processed and plotted with the temperature and the lapse rate per 300 meters versus height at 15 second intervals. Tic marks are placed on the temperature plot at significant levels. A solid line to the right side of the plot indicates the data for that layer are interpolated temeprature values. The temperature data are also printed out and punched on cards. The asterisk beside a height value indicates a significant level while a "?" indicates interpolated data.

The temperature data are also processed to produce for each site a monthly summary of inversion layers and lapse rates within the inversions and from the inversion base to the surface by means of the Holzworth classification scheme for inversions (Holzworth, G.C., 1974: "Climatological Data on Atmospheric Stability in the United States" Paper presented at the American Meteorological Society Symposium on Atmospheric Diffusion and Air Pollution, September 9-13, 1974. Santa Barbara, California.)

The temperature and wind data are processed together to produce for each site a monthly average bivariate frequency distribution of wind direction versus wind speed represented in the 500m layer adjacent to the ground. The distribution is presented by the six Pasquill stability classes (A-F) and a summary independent of stability. If the $\Delta T/100m$ criterion is met but the wind speed criterion is not met, then the

STABILITY CLASS	ΔT (°C/100m)	WIND SPEED
A	<-1.9	≤2
B	-1.9 - -1.7	≤5
C	-1.7 - -1.5	≤6
D	-1.5 - -0.5	ALL SPEEDS
E	-0.5 - 1.5	≤5
F	>1.5	≤3

wind data are checked against the criterion for the next stability class, always cascading to the D stability class. Once the wind speed criterion is met the data are classified under the new stability class even though now the lapse rate exceeds the class criterion. For example,

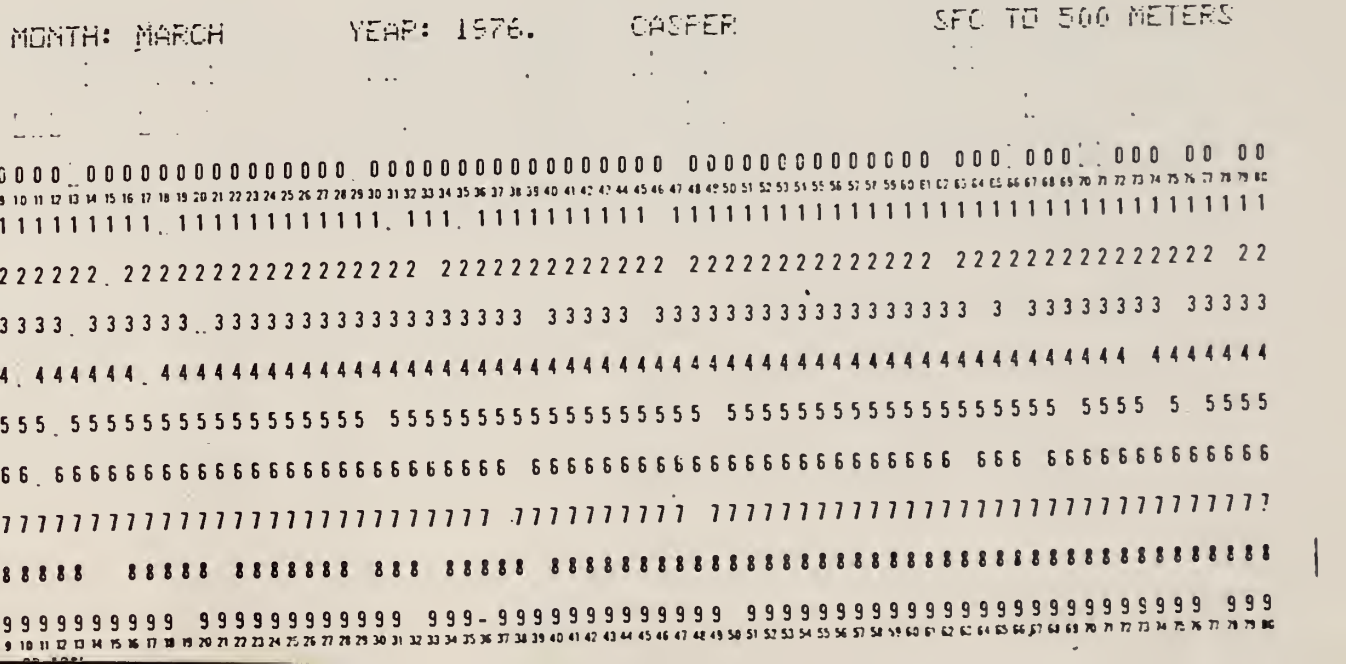
if the $\Delta T/100m$ value is 1.7 and the wind speed is 7 m/s, the lapse rate criterion is met for the stability class F, however the wind speed criterion is exceeded. The wind speed is greater than the 5 m/s maximum limit for class E but falls within the criterion of class D, which includes all wind speeds. As a result the observational data with a ΔT value of 1.7°C/100 m and a wind speed value of 7 m/s are classified under stability class D, not class F.

The data are also punched on computer cards in a format compatible with the STAR PROGRAM of the National Climatic Center, NOAA, U.S. Department of Commerce.

3.2 Punched Output

The punched temperature and wind data for each observation are categorized into four groups, each separated by a blank card. The first group begins with a header card listing the station name (3A4), the station elevation in meters (I4), the month, date and year (I6), the observation time (I4), the time zone (A3), the balloon ascent rate in feet per minute (I3), the sampling interval in seconds (I2), the temperature error in °C (F5.1), the T-Sonde I.D. number (I5) and the surface wind speed in kts and direction (2F6.1). A surface wind speed of 180.0 KTS indicates missing surface wind data. The series of cards prior to the first blank card include on each card the elapse time in minutes (2X,F5.1), the height of the balloon in meters AGL (4X,F5.0), the height of the balloon in meters MSL(4X,F5.0), the temperature in °C (4X,F6.2), the change in temperature between standard or significant levels (2X,F6.2), the lapse rate per 300m (2X,F6.2), the difference in the lapse rate per 300m and the dry adiabatic lapse rate per 300m (2X,F6.2), the wind speed in m/s if known (4X,F5.1), and the wind direction if known (3X,F5.0). The cards following the first blank card include on each card the elapse time in minutes (2X,F5.1), the height in meters AGL (4X,F5.0), the height in meters MSL (4X,F5.0), the u-component of the wind in m/s (4X,F6.1), the V-component of the wind in m/s (6X,F6.1), the wind speed in m/s (7X,F5.1), the wind direction (6X,F5.0), the elevation angle in degrees (F5.1) and the azimuth angle in degrees (F5.1). The cards after the second blank card include a header card like before and a series of cards with four groups of the following on each card; the height in meters AGL (F6.1), the temperature in °C (F6.2), the lapse rate °C/300m (F6.2) and a blank space (1X). The cards after the third blank card include a header card the same as described earlier, eight cards with the original digitized temperature data and a flag to indicate interpolated data (20(F3.1,I1)), five cards with the elevation angle in degrees (16F5.1), and five cards with the azimuth angle in degrees (16F5.1). The temperature data are in degrees Celsius and have 50°C added to each value. An elevation angle of 180° indicates a missing azimuth and elevation angle value.

The punched output from the bivariate frequency distribution calculations include a header card as illustrated below,



and the punched distribution data for each wind direction under each stability class in agreement with the "star" output. The stability classes are number coded as follows:

STABILITY CLASS	NUMBER CODE
A	1
B	2
C	3
D	4
E	5
F	6
Independent of Stability	7

The station I.D. numbers are as follows:

STATION	I.D. Number
Casper, Wyoming	1
Colorado CB Tract	2
Craig, Colorado	3
Escalante, Utah	4
Hanksville, Utah	5
Rock Springs, Wyoming	6

The month and season number codes are as follows.

MONTH	1-12
SEASON	13=DJF
	14=MAM
	15=JJA
	16=SON
ANNUAL	17

PILOT BALLOON SUMMARY
Colorado CB Tract
March, 1976

March 1 0730 The recorded temperature data became very noisy immediately after the launch and the data could not be recovered. The balloon entered the clouds 4 minutes after the launch.

1 1330 The receiver was not tuned properly and the first 13 minutes of temperature data were lost. No baseline temperature calibration was performed and since no confidence could be placed in the absolute values, the temperature data were not processed. The observer lost sight of the balloon after 5½ minutes.

March 3 0735 No baseline temperature check and no launch time was recorded. No assumptions on the data could be justified, so the temperature data were not processed. The balloon entered the clouds after 10 minutes.

3 1330 The receiver was not tuned properly and no temperature data were recovered. The balloon entered the clouds after 10 minutes.

March 5 0700 The receiver lost lock on the transmitted temperature signal 5½ minutes into the launch and was not retuned. The observer lost sight of the balloon after 9½ minutes.

5 1330 The temperature drifted -45° within 6 minutes after the launch. The lapse rate was not believable so the temperature data was not processed.

March 7 0700 The receiver lost lock of the transmitted temperature signal 2½ minutes after the launch and was retuned 4 minutes later. The temperature data were interpolated over the data gap. The observer lost sight of the balloon 10½ minutes after the launch.

7 1255

March 9 0715

9 1330 The receiver lost lock on the temperature transmitted signal for a period of 3 minutes 8½ minutes into the launch. The data were interpolated over the gap.

March 11 0645 The receiver lost lock on the temperature signal for a 2 minute interval 7½ minutes into the launch. The receiver was retuned and the data were interpolated over the gap.

11 1345

PILOT BALLOON SUMMARY
Colorado CB Tract
March, 1976

March 13 0715 The temperature trace is free of any noise and there is no indication of any malfunctions. The balloon entered the clouds after 10 minutes.

13 1300 The receiver lost lock on the temperature signal 7½ minutes into the launch and was not retuned.

March 15 0715 The balloon entered the clouds after 7 minutes.

15 1330

March 17 0715

17 1330

March 19 0720 Snowing and the balloon could not be tracked for the wind data.

19 1330 The receiver was modified to correct a temperature recording error and the antenna was modified to increase the signal tracking capabilities of the receiver. The receiver lost lock of the sonde frequency for 2 minutes 5 minutes into the launch. The balloon entered the clouds after 9½ minutes.

March 21 0700 The secondary observer made the observation and the receiver lost lock on the temperature signal at 5 minutes and was not retuned. The observer lost sight of the balloon after 10½ minutes when it went behind the building.

21 1300 The secondary observer made the observation and he did not retune the receiver when it lost lock on the temperature signal 8 minutes into the launch. The balloon entered the clouds after 6½ minutes.

March 23 0715 The wind speed of 11 m/s at 1330m AGL is felt to be an observational error.

23 1250

March 25 0715 The temperature signal was lost after 9 minutes and was not regained.

25 1300 The temperature signal was lost at 4½ minutes and retuned at 7 minutes. The data were interpolated over the gap. The balloon could not be tracked because of snow.

PILOT BALLOON SUMMARY
COLORADO CB TRACT
March, 1976

March	27 0700	The temperature signal was lost after 8 minutes and was not regained.
	27 1300	No temperature was recorded after 3 minutes and no reason was given.
March	29 0715	The temperature signal was lost after 6½ minutes and was not regained until 16 minutes. The temperature data were interpolated over the gap.
	29 1330	The temperature signal was lost at launch and was not regained for 10 minutes. The data were interpolated over the gap. The balloon entered the clouds after 4½ minutes.
March	31 0710	
	31 1330	

AVERAGE MIXING LAYER HEIGHT
COLORADO CB TRACT
March, 1976

DATE	HEIGHT
1	
3	
5	100m
7	none defined
9	500m
11	none defined
13	500m
15	none defined
17	500m
19	none defined
21	1250m
23	300m
25	none defined
27	750m
29	none defined
31	1250m

COL CB TRACT ELEV 2042 METERS SOUNDING ID 4038

DATE 03/01/76 TIME 07:30MST ASCENT RATE 600 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC						7.7	10.
0.8	150	2192					9.4	187.
1.6	300	2342					13.3	187.
2.5	458.	2500.					18.6	224.
2.7	500	2542					14.8	217.

COL CB TRACT ELEV 2042 METERS SOUNDING ID 4038

DATE 03/01/76 TIME 07:30MST ASCENT RATE 600 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WND SPEED M/S	WND DIR DEG
0.0	0.	2042.	-1.3	-7.6	7.7	10.
0.5	91.	2133.	-0.9	9.9	10.0	175.
1.0	183.	2225.	2.2	8.8	9.1	194.
1.5	274.	2316.	1.3	12.2	12.3	186.
2.0	366.	2408.	2.2	15.6	15.8	188.
2.5	457.	2499.	13.0	13.4	18.6	224.
3.0	549.	2591.	5.2	9.1	10.5	210.
3.5	640.	2682.	4.6	7.4	8.7	212.
4.0	732.	2774.	-10.3	10.3	14.6	135.

COL CB TRACT ELEV 2042 METERS SOUNDING ID 4030

DATE 03/01/76 TIME 13:30MST ASCENT RATE 600 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC						10.3	180.
0.8	150	2192					6.8	188.
1.6	300	2342					7.9	181.
2.5	458.	2500.					11.8	188.
2.7	500	2542					11.9	190.
5.2	958.	3000.					10.0	199.

COL CB TRACT ELEV 2042 METERS SOUNDING ID 4030

DATE 03/01/76 TIME 13:30MST ASCENT RATE 600 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WND SPEED M/S	WND DIR DEG
0.0	0.	2042.	-0.0	10.3	10.3	180.
0.5	91.	2133.	-1.7	4.5	4.8	160.
1.0	183.	2225.	3.1	7.2	7.9	203.
1.5	274.	2316.	-0.2	7.1	7.1	178.
2.0	366.	2408.	1.7	9.7	9.8	190.
2.5	457.	2499.	1.5	11.7	11.8	188.
3.0	549.	2591.	2.7	11.7	12.0	193.
3.5	640.	2682.	8.9	9.0	12.6	225.
4.0	732.	2774.	-3.8	12.2	12.7	163.
4.5	823.	2865.	3.1	12.0	12.4	194.
5.0	914.	2956.	3.2	8.6	9.2	201.
5.5	1006.	3048.	3.4	10.4	10.9	198.

COL CB TRACT ELEV 2042 METERS SOUNDING ID C

DATE 03/03/76 TIME 07:35MST ASCENT RATE 600 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC						M	M
0.8	150	2192					1.2	152.
1.6	300	2342					3.6	137.
2.5	458.	2500.					5.9	153.
2.7	500	2542					6.4	157.
5.2	958.	3000.					10.5	187.
10.7	1958.	4000.					20.9	221.

COL CB TRACT ELEV 2042 METERS SOUNDING ID C

DATE 03/03/76 TIME 07:35MST ASCENT RATE 600 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WND SPEED M/S	WND DIR DEG
			THE WIND DATA ARE MISSING			
0.5	91.	2133.	0.0	0.5	0.5	181.
1.0	183.	2225.	-1.1	1.2	1.6	136.
1.5	274.	2316.	-2.2	2.4	3.2	137.
2.0	366.	2408.	-3.1	3.2	4.4	136.
2.5	457.	2499.	-2.6	5.2	5.8	153.
3.0	549.	2591.	-2.3	6.7	7.1	161.
3.5	640.	2682.	-0.7	6.7	6.7	174.
4.0	732.	2774.	-1.3	10.1	10.2	173.
4.5	823.	2865.	-0.3	9.6	9.6	178.
5.0	914.	2956.	0.7	10.3	10.3	184.
5.5	1006.	3048.	1.9	10.5	10.7	190.
6.0	1097.	3139.	2.3	10.2	10.4	193.
6.5	1189.	3231.	3.5	9.5	10.1	200.
7.0	1280.	3322.	6.9	9.4	11.6	216.
7.5	1372.	3414.	4.0	9.6	10.4	203.
8.0	1463.	3505.	6.8	9.8	11.9	215.
8.5	1554.	3596.	8.4	9.8	12.9	220.
9.0	1646.	3688.	9.8	10.5	14.4	223.
9.5	1737.	3779.	11.0	12.4	16.6	222.
10.0	1829.	3871.	12.3	13.0	17.9	223.
10.5	1920.	3962.	13.4	15.1	20.1	222.
11.0	2012.	4054.	14.5	16.6	22.1	221.
11.5	2103.	4145.	13.9	16.2	21.3	221.
12.0	2195.	4237.	8.5	10.4	13.4	219.

COL CB TRACT ELEV 2042 METERS SOUNDING ID 4034

DATE 03/03/76 TIME 13:30MST ASCENT RATE 600 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC						M	M
0.8	150	2192					1.3	84.
1.6	300	2342					3.1	153.
2.5	458.	2500.					2.8	148.
2.7	500	2542					3.4	164.
5.2	958.	3000.					8.4	185.

COL CB TRACT ELEV 2042 METERS SOUNDING ID 4034

DATE 03/03/76 TIME 13:30MST ASCENT RATE 600 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WND SPEED M/S	WND DIR DEG
			THE WIND DATA ARE MISSING			
0.5	91.	2133.	-0.5	-0.8	0.9	33.
1.0	183.	2225.	-1.4	0.6	1.5	112.
1.5	274.	2316.	-1.4	2.6	2.9	153.
2.0	366.	2408.	-1.5	2.9	3.3	152.
2.5	457.	2499.	-1.5	2.4	2.8	147.
3.0	549.	2591.	0.2	4.1	4.1	183.
3.5	640.	2682.	0.1	5.2	5.2	181.
4.0	732.	2774.	-1.3	6.3	6.4	168.
4.5	823.	2865.	-1.2	7.0	7.1	171.
5.0	914.	2956.	0.0	8.1	8.1	180.
5.5	1006.	3048.	1.6	8.7	8.8	191.
6.0	1097.	3139.	2.8	8.9	9.3	197.
6.5	1189.	3231.	4.2	8.7	9.7	206.
7.0	1280.	3322.	5.1	10.0	11.2	207.
7.5	1372.	3414.	6.2	9.5	11.3	213.
8.0	1463.	3505.	7.2	10.6	12.8	214.
8.5	1554.	3596.	4.5	10.4	11.4	204.
9.0	1646.	3688.	4.0	10.5	11.2	201.
9.5	1737.	3779.	3.1	10.3	10.7	197.
10.0	1829.	3871.	3.1	6.9	7.6	204.

COL CR TRACT ELEV 2042 METERS SOUNDING ID 1693

DATE 03/05/76 TIME 07:00MST ASCENT RATE 600 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		-12.88		0.0		M	M.
0.5	* 91	2133	-10.36		-4.41	-1.48		
0.7	150	2192	-14.06	-1.18	-10.00	-8.52	1.5	69.
1.0	300	2342	-16.31	-2.25	-5.42	-2.49	2.8	88.
1.4	458.	2500.	-17.34	-0.84	-5.42	-2.49	3.9	106.
1.4	300	2342	-17.30	-0.06	-5.42	-2.49	4.1	111.
3.3	958.	3000.	-21.82	-4.50	-3.87	-0.94	9.7	211.
8.0	1958.	4000.					7.7	280.

COL CR TRACT ELEV 2042 METERS SOUNDING ID 1693

DATE 03/05/76 TIME 07:00MST ASCENT RATE 600 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WND SPEED M/S	WND DIR DEG
			THE WIND DATA ARE MISSING			
0.5	91.	2133.	-0.9	-0.5	1.0	62.
1.0	279.	2321.	-2.7	-0.2	2.7	85.
1.5	528.	2570.	-3.9	1.8	4.3	114.
2.0	669.	2711.	-1.3	3.3	3.6	159.
2.5	777.	2819.	1.2	4.3	4.5	195.
3.0	883.	2925.	3.5	6.1	7.0	210.
3.5	996.	3040.	5.7	9.6	11.2	211.
4.0	1116.	3158.	8.6	1.0	8.7	264.
4.5	1234.	3276.	8.1	4.6	9.3	240.
5.0	1352.	3394.	6.3	3.6	7.2	240.
5.5	1468.	3510.	6.6	2.8	7.2	247.
6.0	1579.	3621.	6.5	1.3	6.7	258.
6.5	1682.	3724.	6.0	-0.5	6.0	275.
7.0	1774.	3816.	6.0	-0.8	6.0	278.
7.5	1865.	3907.	7.7	-0.3	7.7	272.
8.0	1957.	3999.	7.6	-1.3	7.7	280.
8.5	2048.	4090.	8.9	-2.2	9.2	284.
9.0	2139.	4181.	8.2	-1.7	8.4	282.
9.5	2231.	4273.	6.7	-3.9	7.7	300.

COL CB TRACT ELEV 2042 METERS SOUNDING ID 1694

DATE 03/05/76 TIME 13:30MST ASCENT RATE 600 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC						M	M
0.8	150	2192					0.7	159.
1.6	300	2342					0.4	190.
2.5	458.	2500.					1.4	147.
2.7	500	2542					1.2	194.
5.2	958.	3000.					1.0	256.
10.7	1958.	4000.					8.1	291.

COL CB TRACT ELEV 2042 METERS SOUNDING ID 1694

DATE 03/05/76 TIME 13:30MST ASCENT RATE 600 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WND SPEED M/S	WND DIR DEG
			THE WIND DATA ARE MISSING			
0.5	91.	2133.	0.5	-1.2	1.3	340.
1.0	183.	2225.	-0.3	-0.2	0.4	57.
1.5	274.	2316.	0.2	0.0	0.2	264.
2.0	366.	2408.	-0.0	-0.8	0.8	0.
2.5	457.	2499.	-0.8	1.2	1.4	146.
3.0	549.	2591.	0.8	0.3	0.8	248.
3.5	640.	2682.	1.0	6.0	6.1	189.
4.0	732.	2774.	0.6	0.9	1.1	214.
4.5	823.	2865.	1.2	1.0	1.5	231.
5.0	914.	2956.	1.1	0.3	1.1	254.
5.5	1006.	3048.	0.8	0.1	0.8	259.
6.0	1097.	3139.	-0.4	1.4	1.4	165.
6.5	1189.	3231.	2.6	0.7	2.7	254.
7.0	1280.	3322.	2.5	2.6	3.6	224.
7.5	1372.	3414.	3.6	2.9	4.7	231.
8.0	1463.	3505.	9.1	-2.1	9.4	283.
8.5	1554.	3596.	9.7	-5.0	10.9	297.
9.0	1646.	3688.	6.8	-1.4	6.9	281.
9.5	1737.	3779.	7.1	-0.9	7.1	277.
10.0	1829.	3871.	7.8	-5.8	9.7	307.
10.5	1920.	3962.	7.4	-2.1	7.7	286.
11.0	2012.	4054.	7.6	-4.1	8.6	298.
11.5	2103.	4145.	4.5	-4.5	6.3	315.
12.0	2195.	4237.	9.4	-4.3	10.4	295.

COL CB TRACT ELEV 2042 METERS SOUNDING ID 1692

DATE 03/07/76 TIME 07:00MST ASCENT RATE 600 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		3.54		0.0	.	M	M
0.8	150	2192	2.30	-1.23	-2.13	0.80	0.4	318.
1.6	300	2342	1.33	-0.98	-2.36	0.57	1.2	21.
2.5	458.	2500.	-0.42	-1.36	-1.89	1.04	3.7	348.
2.7	500	2542	-0.39	-0.35	-1.89	1.04	3.6	343.
5.2	958.	3000.	-2.94	-2.19	-1.18	1.75	4.0	334.
10.7	1958.	4000.	-8.70	-6.12	-3.78	-0.85		
14.9	2958.	5000.	-17.80	-9.10	-10.00	-9.55		

COL CB TRACT ELEV 2042 METERS SOUNDING ID 1692

DATE 03/07/76 TIME 07:00MST ASCENT RATE 600 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WND SPEED M/S	WND DIR DEG
			THE WIND DATA ARE MISSING			
0.5	91.	2133.	0.5	-0.7	0.9	324.
1.0	183.	2225.	0.1	-0.1	0.2	314.
1.5	274.	2316.	-0.4	-0.9	1.0	26.
2.0	366.	2408.	-0.3	-1.8	1.8	9.
2.5	457.	2499.	0.8	-3.6	3.7	348.
3.0	549.	2591.	1.5	-3.3	3.6	336.
3.5	640.	2682.	1.9	-4.6	5.0	337.
4.0	732.	2774.	3.5	-5.1	6.2	326.
4.5	823.	2865.	3.6	-4.1	5.5	319.
5.0	914.	2956.	2.2	-3.5	4.2	328.
5.5	1006.	3048.	1.2	-3.5	3.7	341.
6.0	1097.	3139.	2.0	-3.1	3.7	328.
6.5	1189.	3231.	3.4	-3.7	5.0	317.
7.0	1280.	3322.	2.4	-3.2	4.0	323.
7.5	1372.	3414.	1.5	-2.2	2.7	326.
8.0	1463.	3505.	1.6	-2.5	3.0	328.
8.5	1554.	3596.	0.6	-2.1	2.2	344.
9.0	1646.	3688.	-0.8	-3.4	3.5	13.
9.5	1737.	3779.	0.5	-3.8	3.8	352.
10.0	1829.	3871.	-0.7	-4.3	4.4	9.
10.5	1920.	3962.	1.3	-4.3	4.5	343.

COL CB TRACT ELEV 2042 METERS SOUNDING ID 1690

DATE 03/07/76 TIME 12:55MST ASCENT RATE 600 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		2.96		0.0		2.6	315.
0.8	150	2192	2.10	-0.86	-1.18	1.75	6.1	281.
1.6	300	2342	2.17	0.07	-1.18	1.75	4.1	283.
2.5	458.	2500.	0.22	-1.62	-2.60	0.33	2.7	261.
2.7	500	2542	0.25	-0.30	-2.60	0.33	3.3	265.
5.2	958.	3000.	0.30	0.41	0.24	3.16	6.8	301.
10.7	1958.	4000.	2.24	2.16	-0.83	2.10	1.6	335.

COL CB TRACT ELEV 2042 METERS SOUNDING ID 1690

DATE 03/07/76 TIME 12:55MST ASCENT RATE 600 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WND SPEED M/S	WND DIR DEG
0.0	0.	2042.	1.8	-1.8	2.6	315.
0.5	91.	2133.	7.3	-0.6	7.4	275.
1.0	183.	2225.	5.3	-1.4	5.5	284.
1.5	274.	2316.	4.0	-0.6	4.1	279.
2.0	366.	2408.	4.0	-1.7	4.4	293.
2.5	457.	2499.	2.7	0.4	2.7	261.
3.0	555.	2597.	4.0	0.1	4.0	269.
3.5	647.	2689.	6.3	0.5	6.3	266.
4.0	738.	2780.	6.4	-0.6	6.5	276.
4.5	829.	2871.	7.5	-1.4	7.6	281.
5.0	921.	2963.	6.4	-3.5	7.3	299.
5.5	1012.	3054.	5.1	-3.4	6.2	304.
6.0	1104.	3146.	5.1	-0.9	5.2	281.
6.5	1195.	3237.	1.7	-0.6	1.8	289.
7.0	1287.	3329.	0.5	1.3	1.4	200.
7.5	1378.	3420.	1.9	-1.2	2.2	303.
8.0	1470.	3512.	2.3	-2.0	3.1	311.
8.5	1561.	3603.	3.8	-2.3	4.5	302.
9.0	1652.	3694.	3.6	-1.5	3.9	292.
9.5	1744.	3786.	3.5	-1.6	3.9	295.
10.0	1835.	3877.	3.2	-1.3	3.5	292.
10.5	1927.	3969.	1.0	-1.5	1.8	328.
11.0	2018.	4060.	0.2	-1.2	1.2	349.
11.5	2110.	4152.	0.6	-1.8	1.9	343.
12.0	2201.	4243.	-0.6	-3.8	3.9	10.

COL CB TRACT ELEV 2042 METERS SOUNDING ID 1693

DATE 03/09/76 TIME 07:15MST ASCENT RATE 600 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		-18.99		0.0		M	M
0.8	150	2192	-17.24	1.75	1.35	4.28	0.5	236.
1.3	* 228	2270	-16.75		1.06	3.99		
1.6	300	2342	-16.69	0.55	-1.06	1.86	4.2	202.
2.5	458.	2500.	-18.87	-1.34	-3.39	-0.46	3.3	221.
2.7	500	2542	-18.80	-0.77	-3.39	-0.46	3.4	222.
5.2	958.	3000.	-21.82	-2.54	-3.10	-0.17	6.1	264.
10.1	1958.	4000.	-33.15	-10.56	-6.77	-3.85	10.6	281.

COL CB TRACT ELEV 2042 METERS SOUNDING ID 1693

DATE 03/09/76 TIME 07:15MST ASCENT RATE 600 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WND SPEED M/S	WND DIR DEG
			THE WIND DATA ARE MISSING			
0.5	91.	2133.	0.2	0.1	0.3	235.
1.0	183.	2225.	0.6	0.4	0.7	237.
1.5	274.	2316.	1.5	4.1	4.4	201.
2.0	366.	2408.	1.5	3.3	3.7	205.
2.5	457.	2499.	2.2	2.5	3.3	221.
3.0	555.	2597.	2.4	2.5	3.5	224.
3.5	652.	2694.	4.0	2.6	4.7	237.
4.0	743.	2785.	3.8	1.6	4.1	248.
4.5	835.	2877.	5.5	0.4	5.5	266.
5.0	926.	2968.	5.1	0.2	5.2	268.
5.5	1028.	3070.	7.9	2.0	8.1	256.
6.0	1121.	3163.	7.1	1.6	7.3	258.
6.5	1212.	3254.	8.1	0.8	8.1	264.
7.0	1304.	3346.	7.3	1.2	7.4	260.
7.5	1395.	3437.	10.0	-1.4	10.1	278.
8.0	1490.	3532.	7.7	1.2	7.8	261.
8.5	1582.	3624.	7.3	0.8	7.3	263.
9.0	1700.	3742.	11.4	-0.7	11.5	274.
9.5	1808.	3850.	10.3	-0.5	10.3	273.
10.0	1935.	3977.	9.9	-2.0	10.1	281.
10.5	2141.	4183.	14.5	-2.0	14.6	278.
11.0	2348.	4390.	14.8	-2.9	15.1	281.
11.5	2554.	4596.	14.9	-2.2	15.1	279.
12.0	2761.	4803.	13.8	-2.7	14.1	281.

COL CB TRACT ELEV 2042 METERS SOUNDING ID 1696

DATE 03/09/76 TIME 13:30MST ASCENT RATE 600 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		-4.74		0.0		3.6	140.
0.8	150	2192	-6.28	-1.53	-3.66	-0.73	0.8	213.
1.6	300	2342	-7.40	-1.13	0.24	3.16	2.3	212.
2.4	458.	2500.	-7.19	0.21	0.59	3.52	4.1	222.
2.7	500	2542	-6.98	0.21	-0.83	2.10	3.7	216.
4.7	958.	3000.	-12.52	-4.43	-6.49	-3.57	7.3	224.
8.1	1958.	?4000.	-21.22	-9.81	-3.87	-0.94	7.6	273.
11.8	2958.	5000.					9.0	280.

COL CB TRACT ELEV 2042 METERS SOUNDING ID 1696

DATE 03/09/76 TIME 13:30MST ASCENT RATE 600 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WND SPEED M/S	WND DIR DEG
0.0	0.	2042.	-2.3	2.8	3.6	140.
0.5	91.	2133.	0.4	0.7	0.8	213.
1.0	183.	2225.	0.4	0.7	0.8	213.
1.5	284.	2326.	1.2	2.1	2.4	210.
2.0	376.	2418.	1.3	1.6	2.1	220.
2.5	467.	2509.	2.9	3.2	4.3	222.
3.0	559.	2601.	1.1	2.3	2.6	205.
3.5	650.	2692.	1.0	3.3	3.4	197.
4.0	746.	2788.	1.9	2.1	2.8	221.
4.5	881.	2923.	4.3	4.5	6.2	224.
5.0	1068.	3110.	6.2	6.4	8.9	225.
5.5	1248.	3290.	7.3	3.5	8.1	245.
6.0	1377.	3419.	5.7	3.6	6.7	238.
6.5	1525.	3567.	12.7	4.6	13.5	250.
7.0	1678.	3720.	11.6	-0.2	11.6	271.
7.5	1806.	3848.	9.9	1.4	10.0	262.
8.0	1930.	3972.	7.6	-0.7	7.6	275.
8.5	2048.	4090.	7.3	0.7	7.3	264.
9.0	2169.	4211.	7.2	-0.1	7.2	271.
9.5	2289.	4331.	8.0	-1.1	8.1	278.
10.0	2429.	4471.	9.4	-0.8	9.4	275.
10.5	2576.	4618.	12.1	-3.3	12.6	285.
11.0	2724.	4766.	9.1	-0.5	9.1	273.
11.5	2871.	4913.	9.2	-0.4	9.2	273.
12.0	3018.	5060.	8.6	-2.2	8.8	285.
12.5	3166.	5208.	9.7	1.2	9.7	263.
13.0	3313.	5355.	8.9	0.0	8.9	270.
13.5	3461.	5503.	3.4	-2.7	4.4	308.

COL CB TRACT ELEV 2042 METERS SOUNDING ID 1688

DATE 03/11/76 TIME 06:45MST ASCENT RATE 600 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		1.38		0.0		4.1	140.
0.5	* 91	2133	3.32		2.01	4.94		
0.8	150	2192	2.64	1.26	-3.78	-0.85	6.7	183.
1.5	300	2342	0.56	-2.08	-3.90	-0.97	13.9	182.
2.1	458.	2500.	-1.36	-1.51	-3.31	-0.38	14.9	182.
2.2	500	2542	-1.32	-0.36	-3.31	-0.38	14.8	182.
4.5	958.	3000.	-5.39	-4.07	-3.07	-0.14	9.6	195.
9.3	1958.	4000.	-15.92	-10.51	-3.87	-0.94	9.7	223.
13.8	2958.	5000.	-24.28	-8.38	-7.26	-4.33		

COL CB TRACT ELEV 2042 METERS SOUNDING ID 1688

DATE 03/11/76 TIME 06:45MST ASCENT RATE 600 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WND SPEED M/S	WND DIR DEG
0.0	0.	2042.	-2.6	3.2	4.1	140.
0.5	91.	2133.	0.3	7.6	7.6	182.
1.0	183.	2225.	0.5	6.2	6.2	184.
1.5	300.	2342.	0.4	13.9	13.9	182.
2.0	446.	2488.	0.7	14.9	14.9	183.
2.5	568.	2610.	0.1	14.6	14.6	181.
3.0	667.	2709.	0.5	13.3	13.3	182.
3.5	767.	2809.	0.8	10.5	10.6	184.
4.0	864.	2906.	1.7	9.7	9.8	190.
4.5	959.	3001.	2.4	9.3	9.6	195.
5.0	1052.	3094.	4.4	8.0	9.1	209.
5.5	1144.	3186.	4.8	13.1	14.0	200.
6.0	1237.	3279.	3.1	6.8	7.4	204.
6.5	1333.	3375.	2.8	6.5	7.0	203.
7.0	1430.	3472.	2.8	7.6	8.1	200.
7.5	1531.	3573.	3.9	12.2	12.8	198.
8.0	1635.	3677.	3.9	6.1	7.2	213.
8.5	1758.	3800.	10.6	21.1	23.6	207.
9.0	1889.	3931.	5.7	8.0	9.8	216.
9.5	2012.	4054.	7.2	6.4	9.6	229.
10.0	2135.	4177.	3.9	7.0	8.0	209.
10.5	2241.	4283.	2.5	4.7	5.3	209.

COL CB TRACT ELEV 2042 METERS SOUNDING ID 1686

DATE 03/11/76 TIME 13:45MST ASCENT RATE 600 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		2.24		0.0		7.7	140.
0.8	150	2192	0.16	-2.08	-1.65	1.27	7.7	205.
1.6	300	2342	-0.59	-0.75	-4.13	-1.20	7.0	208.
2.3	458.	2500.	-2.58	-1.89	-4.25	-1.32	6.8	214.
2.5	500	2542	-2.56	-0.09	-4.25	-1.32	7.8	215.
4.6	958.	3000.	-7.26	-4.40	-2.36	0.57	7.7	256.
9.3	1958.	4000.	-16.33	-9.36	-3.48	-0.56	7.1	244.
14.3	2958.	5000.	-24.28	-7.96	-6.77	-3.85		

COL CB TRACT ELEV 2042 METERS SOUNDING ID 1686

DATE 03/11/76 TIME 13:45MST ASCENT RATE 600 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WND SPEED M/S	WND DIR DEG
0.0	0.	2042.	-5.0	5.9	7.7	140.
0.5	91.	2133.	2.9	6.8	7.4	203.
1.0	191.	2233.	3.4	7.1	7.9	205.
1.5	283.	2325.	3.4	6.6	7.4	207.
2.0	374.	2416.	2.6	4.2	4.9	212.
2.5	509.	2551.	4.6	6.6	8.0	215.
3.0	642.	2684.	7.9	8.1	11.3	224.
3.5	748.	2790.	6.4	3.2	7.1	243.
4.0	852.	2894.	7.4	3.4	8.2	245.
4.5	943.	2985.	7.4	2.0	7.7	255.
5.0	1035.	3077.	7.8	1.3	7.9	261.
5.5	1126.	3168.	8.1	1.0	8.2	263.
6.0	1217.	3259.	5.3	3.7	6.5	235.
6.5	1309.	3351.	8.9	-1.8	9.0	281.
7.0	1400.	3442.	5.1	1.6	5.3	252.
7.5	1510.	3552.	5.5	2.1	5.9	249.
8.0	1664.	3706.	8.9	4.8	10.1	242.
8.5	1805.	3847.	8.3	3.8	9.1	246.
9.0	1897.	3939.	6.2	2.8	6.8	246.
9.5	1994.	4036.	6.4	3.4	7.2	242.
10.0	2093.	4135.	6.0	3.1	6.8	243.
10.5	2184.	4226.	7.0	3.0	7.7	247.
11.0	2276.	4318.	7.0	1.9	7.3	255.
11.5	2367.	4409.	7.5	2.6	7.9	251.
12.0	2459.	4501.	7.6	-0.5	7.6	274.

COL CB TRACT ELEV 2042 METERS SOUNDING ID 1687

DATE 03/13/76 TIME 07:15MST ASCENT RATE 600 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		-25.48		0.0		3.1	90.
0.3	* 45	2087	-25.48		0.0	0.0		
0.8	150	2192	-20.88	4.60	7.26	10.19	2.8	157.
1.3	* 228	2270	-19.58		3.58	6.51		
1.6	300	2342	-20.04	0.84	1.45	4.38	6.1	202.
2.5	458.	2500.	-19.76	0.78	-2.71	0.22	2.8	212.
2.7	500	2542	-19.72	-0.46	-2.71	0.22	3.3	222.
5.2	958.	3000.	-21.35	-2.64	2.42	5.35	5.5	233.
6.3	*1142	3184	-20.29		0.0	2.93		

COL CB TRACT ELEV 2042 METERS SOUNDING ID 1687

DATE 03/13/76 TIME 07:15MST ASCENT RATE 600 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WND SPEED M/S	WND DIR DEG
0.0	0.	2042.	-3.1	-0.0	3.1	90.
0.5	91.	2133.	-2.7	0.1	2.7	92.
1.0	183.	2225.	0.6	2.7	2.8	193.
1.5	274.	2316.	2.0	6.7	6.9	196.
2.0	366.	2408.	2.2	3.0	3.8	217.
2.5	457.	2499.	1.5	2.3	2.7	212.
3.0	549.	2591.	3.2	2.4	4.0	233.
3.5	640.	2682.	3.6	3.2	4.8	228.
4.0	732.	2774.	4.7	4.3	6.4	227.
4.5	823.	2865.	4.7	4.0	6.2	230.
5.0	914.	2956.	4.4	3.7	5.8	230.
5.5	1006.	3048.	4.2	2.9	5.1	236.
6.0	1097.	3139.	4.2	1.8	4.6	247.
6.5	1189.	3231.	5.5	1.6	5.7	253.
7.0	1280.	3322.	5.3	0.9	5.4	261.
7.5	1372.	3414.	5.7	-0.9	5.7	279.
8.0	1463.	3505.	6.1	-0.8	6.1	278.
8.5	1557.	3599.	8.2	-3.1	8.8	291.
9.0	1695.	3737.	11.3	-4.9	12.4	294.
9.5	1799.	3841.	11.1	-7.5	13.4	304.
10.0	1891.	3933.	11.8	-7.7	14.1	303.

COL CB TRACT ELEV 2042 METERS SOUNDING ID 1685

DATE 03/13/76 TIME 13:00MST ASCENT RATE 600 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		-0.42		0.0		5.1	210.
0.7	150	2192	-2.08	-1.66	-4.72	-1.80	4.3	196.
1.2	300	2342	-4.21	-2.13	-3.54	-0.61	4.4	188.
1.8	458.	2500.	-5.68	-1.43	-2.13	0.80	4.4	201.
2.0	500	2542	-6.34	-0.70	-1.18	1.75	4.6	206.
4.5	958.	3000.	-7.62	-0.92	-1.54	1.39	4.0	195.
10.0	1958.	4000.					8.4	284.

COL CB TRACT ELEV 2042 METERS SOUNDING ID 1685

DATE 03/13/76 TIME 13:00MST ASCENT RATE 600 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WND SPEED M/S	WND DIR DEG
0.0	0.	2042.	2.6	4.5	5.1	210.
0.5	91.	2133.	1.6	3.7	4.0	203.
1.0	241.	2283.	0.4	4.7	4.7	184.
1.5	390.	2432.	0.9	3.9	4.0	193.
2.0	498.	2540.	2.0	4.2	4.6	206.
2.5	590.	2632.	2.1	3.6	4.2	210.
3.0	681.	2723.	2.6	2.1	3.3	232.
3.5	772.	2814.	5.2	1.8	5.5	251.
4.0	864.	2906.	7.2	0.7	7.2	264.
4.5	955.	2997.	1.0	3.9	4.0	194.
5.0	1047.	3089.	1.7	3.5	3.9	206.
5.5	1138.	3180.	2.9	2.6	3.9	228.
6.0	1230.	3272.	3.5	3.1	4.7	229.
6.5	1321.	3363.	2.5	2.9	3.8	221.
7.0	1413.	3455.	4.6	3.2	5.7	235.
7.5	1504.	3546.	0.8	4.8	4.9	190.
8.0	1595.	3637.	8.3	-1.1	8.4	277.
8.5	1687.	3729.	4.9	0.1	4.9	269.
9.0	1778.	3820.	5.0	-2.4	5.5	296.
9.5	1870.	3912.	7.4	-1.4	7.5	281.
10.0	1961.	4003.	8.2	-2.0	8.5	284.
10.5	2053.	4095.	8.4	-3.5	9.1	293.
11.0	2144.	4186.	7.0	-4.4	8.2	302.
11.5	2235.	4277.	8.1	-5.9	10.0	306.
12.0	2327.	4369.	8.3	-7.1	10.9	310.
12.5	2418.	4460.	6.0	-8.5	10.4	325.

COL CB TRACT ELEV 2042 METERS SOUNDING ID 1684

DATE 03/15/76 TIME 07:15MST ASCENT RATE 600 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		-3.88		0.0		6.2	330.
0.8	150	2192	-3.59	0.29	-1.42	1.51	1.3	203.
1.6	300	2342	-4.37	-0.78	-1.77	1.16	4.2	334.
2.5	458.	2500.	-6.26	-1.47	-2.95	-0.02	7.5	319.
2.7	500	2542	-6.22	-0.38	-2.95	-0.02	7.4	320.
5.2	958.	3000.	-10.22	-3.77	-3.07	-0.14	6.3	320.
9.8	1958.	4000.	-20.56	-10.56	-3.39	-0.46		
13.8	2958.	5000.	-26.95	-6.39	-5.61	-2.68		

COL CB TRACT ELEV 2042 METERS SOUNDING ID 1684

DATE 03/15/76 TIME 07:15MST ASCENT RATE 600 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WND SPEED M/S	WND DIR DEG
0.0	0.	2042.	3.1	-5.3	6.2	330.
0.5	91.	2133.	-0.5	-1.3	1.4	20.
1.0	183.	2225.	1.0	-0.7	1.2	305.
1.5	274.	2316.	1.5	-3.5	3.8	337.
2.0	366.	2408.	2.9	-4.2	5.1	325.
2.5	457.	2499.	4.9	-5.7	7.5	319.
3.0	549.	2591.	4.5	-5.6	7.2	322.
3.5	640.	2682.	3.9	-4.6	6.0	320.
4.0	732.	2774.	3.9	-4.1	5.7	316.
4.5	823.	2865.	3.6	-4.3	5.6	320.
5.0	914.	2956.	4.3	-4.8	6.4	318.
5.5	1006.	3048.	3.9	-4.9	6.2	321.
6.0	1098.	3140.	3.8	-6.0	7.1	328.
6.5	1221.	3263.	4.9	-8.6	9.9	330.
7.0	1353.	3395.	5.6	-9.3	10.9	329.
7.5	1465.	3507.	4.6	-9.9	10.9	335.

COL CB TRACT ELEV 2042 METERS SOUNDING ID 1682

DATE 03/15/76 TIME 13:30MST ASCENT RATE 600 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		-3.30		0.0		7.7	330.
0.8	150	2192	-5.17	-1.87	-3.19	-0.26	6.3	320.
1.5	300	2342	-7.03	-1.86	-4.49	-1.56	7.6	324.
2.1	458.	2500.	-9.28	-1.61	-4.01	-1.09	7.7	325.
2.3	500	2542	-9.22	-0.57	-4.01	-1.09	7.1	325.
4.3	958.	3000.	-13.60	-4.31	-4.43	-1.50	7.2	309.
9.2	1958.	4000.	-21.59	-7.52	-2.90	0.03	8.1	329.

COL CB TRACT ELEV 2042 METERS SOUNDING ID 1682

DATE 03/15/76 TIME 13:30MST ASCENT RATE 600 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WND SPEED M/S	WND DIR DEG
0.0	0.	2042.	3.9	-6.7	7.7	330.
0.5	91.	2133.	3.1	-3.4	4.6	318.
1.0	201.	2243.	4.7	-6.2	7.8	323.
1.5	298.	2340.	4.6	-6.1	7.6	323.
2.0	423.	2465.	4.7	-6.8	8.2	325.
2.5	559.	2601.	3.6	-5.1	6.2	325.
3.0	674.	2716.	4.4	-5.3	6.9	320.
3.5	766.	2808.	4.0	-3.5	5.3	311.
4.0	858.	2900.	3.1	-3.1	4.4	314.
4.5	1022.	3064.	7.3	-5.3	9.0	306.
5.0	1155.	3197.	5.6	-5.1	7.6	312.
5.5	1265.	3307.	4.8	-4.3	6.4	312.
6.0	1379.	3421.	6.0	-4.4	7.4	306.
6.5	1470.	3512.	4.8	-3.3	5.8	304.
7.0	1562.	3604.	6.7	-4.2	7.9	302.
7.5	1653.	3695.	7.2	-4.8	8.6	304.
8.0	1744.	3786.	6.3	-4.9	8.0	308.
8.5	1836.	3878.	5.2	-5.1	7.3	315.
9.0	1927.	3969.	3.9	-6.0	7.2	327.
9.5	2022.	4064.	4.7	-8.8	10.0	332.
10.0	2148.	4190.	7.1	-13.8	15.6	333.
10.5	2305.	4347.	7.1	-13.2	15.0	332.
11.0	2460.	4502.	6.0	-15.8	16.9	339.
11.5	2563.	4605.	4.5	-11.7	12.6	339.
12.0	2654.	4696.	3.6	-10.7	11.3	342.
12.5	2752.	4794.	5.2	-15.6	16.5	342.

COL CB TRACT ELEV 2042 METERS SOUNDING ID 1681

DATE 03/17/76 TIME 07:15MST ASCENT RATE 600 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		0.30		0.0		M	M
0.8	150	2192	-1.43	-1.73	-3.07	-0.14	2.0	210.
1.6	300	2342	-2.78	-1.35	-1.89	1.04	7.2	221.
2.5	458.	2500.	-3.66	-0.88	-2.95	-0.02	6.5	240.
2.7	500	2542	-4.23	-0.57	-2.83	0.09	6.3	245.
5.2	958.	3000.	-8.34	-3.75	-2.24	0.68	7.1	259.
9.6	1958.	4000.	-18.28	-9.70	3.10	6.02	20.1	233.
10.0	*2045	4087	-18.28		3.10	6.02		
11.0	*2228	4270	-14.74		0.19	3.12		
15.0	2958.	5000.	-18.05	-0.36	-2.81	0.12		

COL CB TRACT ELEV 2042 METERS SOUNDING ID 1681

DATE 03/17/76 TIME 07:15MST ASCENT RATE 600 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WND SPEED M/S	WND DIR DEG
			THE WIND DATA ARE MISSING			
0.5	91.	2133.	0.5	0.5	0.7	223.
1.0	188.	2230.	1.0	2.7	2.9	201.
1.5	280.	2322.	4.7	6.3	7.9	217.
2.0	371.	2413.	3.9	2.8	4.8	234.
2.5	463.	2505.	5.8	3.2	6.6	241.
3.0	554.	2596.	5.4	1.9	5.7	251.
3.5	646.	2688.	6.3	1.8	6.6	254.
4.0	737.	2779.	6.4	1.9	6.7	255.
4.5	829.	2871.	7.0	1.6	7.1	258.
5.0	920.	2962.	5.9	1.7	6.2	254.
5.5	1012.	3054.	8.5	0.7	8.5	265.
6.0	1103.	3145.	7.8	-0.1	7.8	271.
6.5	1194.	3236.	8.7	-0.1	8.7	271.
7.0	1286.	3328.	9.0	-0.9	9.1	276.
7.5	1377.	3419.	10.1	-0.4	10.1	272.
8.0	1498.	3540.	12.9	-0.1	12.9	271.
8.5	1652.	3694.	15.4	1.7	15.5	264.
9.0	1804.	3846.	14.9	1.9	15.0	263.
9.5	1944.	3986.	13.2	15.0	20.0	222.
10.0	2045.	4087.	17.5	-10.8	20.6	302.
10.5	2137.	4179.	13.5	3.2	13.9	257.
11.0	2228.	4270.	11.2	3.9	11.9	251.
11.5	2320.	4362.	10.2	5.7	11.7	241.
12.0	2411.	4453.	10.2	6.9	12.3	236.
12.5	2503.	4545.	9.3	6.3	11.3	230.

COL CB TRACT ELEV 2042 METERS SOUNDING ID 1842

DATE 03/17/76 TIME 13:30MST ASCENT RATE 600 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		3.82		0.0		5.1	230.
0.8	150	2192	2.09	-1.73	-3.19	-0.26	4.5	214.
1.5	300	2342	1.02	-1.08	-3.31	-0.38	4.1	228.
2.1	458.	2500.	-2.01	-2.40	-5.67	-2.74	5.0	233.
2.3	500	2542	-1.94	-0.55	-5.67	-2.74	6.2	239.
3.8	958.	3000.	-5.90	-3.95	-4.72	-1.80	3.5	272.
7.4	1958.	4000.	-15.33	-9.44	-0.48	2.44	8.0	300.
12.8	2958.	5000.	-20.58	-5.25	-2.71	0.22		

COL CB TRACT ELEV 2042 METERS SOUNDING ID 1842

DATE 03/17/76 TIME 13:30MST ASCENT RATE 600 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WND SPEED M/S	WND DIR DEG
0.0	0.	2042.	3.9	3.3	5.1	230.
0.5	91.	2133.	3.0	3.1	4.4	224.
1.0	192.	2234.	2.1	4.1	4.6	207.
1.5	300.	2342.	3.0	2.7	4.1	228.
2.0	423.	2465.	3.0	2.7	4.0	228.
2.5	577.	2619.	7.8	2.9	8.3	250.
3.0	732.	2774.	6.7	2.1	7.1	252.
3.5	874.	2916.	6.1	2.3	6.5	250.
4.0	1000.	3042.	2.0	-0.5	2.1	284.
4.5	1148.	3190.	4.6	-0.4	4.7	275.
5.0	1310.	3352.	5.4	-1.5	5.7	286.
5.5	1454.	3496.	6.1	-1.6	6.3	285.
6.0	1623.	3665.	7.4	-5.4	9.2	306.
6.5	1780.	3822.	7.4	-4.4	8.6	301.
7.0	1885.	3927.	5.5	-2.0	5.8	290.
7.5	1977.	4019.	7.3	-4.6	8.6	302.
8.0	2068.	4110.	5.6	-2.6	6.2	295.
8.5	2160.	4202.	8.0	-2.8	8.5	290.
9.0	2254.	4296.	8.6	-3.7	9.4	293.
9.5	2346.	4388.	11.2	-4.2	12.0	291.
10.0	2437.	4479.	10.5	-4.6	11.5	293.
10.5	2529.	4571.	12.8	-6.8	14.5	298.
11.0	2620.	4662.	13.2	-6.5	14.7	296.
11.5	2711.	4753.	11.2	-3.8	11.8	289.
12.0	2803.	4845.	13.5	-4.3	14.1	288.
12.5	2894.	4936.	12.6	-2.9	12.9	283.

COL CB TRACT ELEV 2042 METERS SOUNDING ID 1848

ATE 03/19/76 TIME 07:20MST ASCENT RATE 600 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		0.30		0.0		7.7	330.
0.8	150	2192	-0.96	-1.26	-2.36	0.57		
1.6	300	2342	-2.27	-1.31	-2.36	0.57		
2.5	458.	2500.	-3.65	-1.38	-1.77	1.16		
2.7	500	2542	-3.66	-0.01	-1.77	1.16		
5.2	958.	3000.	-7.83	-4.16	-4.01	-1.09		
10.4	1958.	4000.	-12.16	-4.33	-2.60	0.33		

COL CB TRACT ELEV 2042 METERS SOUNDING ID 1848

ATE 03/19/76 TIME 07:20MST ASCENT RATE 600 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WND SPEED M/S	WND DIR DEG
0.0	0.	2042.	3.9	-6.7	7.7	330.

COL CB TRACT ELEV 2042 METERS SOUNDING ID 1844

DATE 03/19/76 TIME 13:30MST ASCENT RATE 600 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		-5.10		0.0		15.4	290.
0.6	150	2192	-8.03	-2.93	-5.31	-2.39	13.4	268.
1.0	300	2342	-9.98	-1.95	-5.90	-2.98	19.3	270.
1.5	458.	2500.	-10.72	-0.74	-5.90	-2.98	17.7	261.
1.6	500	2542	-11.70	-0.98	-6.02	-3.09	16.3	263.
3.0	958.	3000.	-16.04	-4.33	-4.16	-1.23	2.3	256.
6.7	1958.	4000.	-27.84	-10.03	-6.29	-3.36	26.5	259.

COL CB TRACT ELEV 2042 METERS SOUNDING ID 1844

DATE 03/19/76 TIME 13:30MST ASCENT RATE 600 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WND SPEED M/S	WND DIR DEG
0.0	0.	2042.	14.5	-5.3	15.4	290.
0.5	91.	2133.	10.8	0.5	10.8	267.
1.0	289.	2331.	19.4	-0.1	19.4	270.
1.5	460.	2502.	17.5	2.8	17.7	261.
2.0	637.	2679.	11.5	-0.4	11.5	272.
2.5	820.	2862.	6.1	-0.7	6.1	277.
3.0	967.	3009.	1.9	0.5	2.0	255.
3.5	1078.	3120.	2.7	-1.0	2.8	291.
4.0	1175.	3217.	8.3	0.7	8.3	265.
4.5	1280.	3322.	12.0	1.2	12.1	265.
5.0	1383.	3425.	20.4	2.0	20.5	265.
5.5	1493.	3535.	14.3	2.2	14.4	261.
6.0	1633.	3675.	13.8	1.8	13.9	262.
6.5	1850.	3892.	24.8	4.9	25.3	259.
7.0	2108.	4150.	27.6	4.8	28.0	260.
7.5	2300.	4342.	21.5	6.7	22.5	253.
8.0	2492.	4534.	23.4	9.1	25.1	249.
8.5	2683.	4725.	22.7	11.3	25.4	244.
9.0	2875.	4917.	23.3	12.9	26.6	241.

COL CB TRACT ELEV 2042 METERS SOUNDING ID 1646

DATE 03/21/76 TIME 07:00MST ASCENT RATE 600 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		-3.50		0.0		2.6	190.
0.7	150	2192	-5.84	-2.34	-6.56	-3.63	5.4	239.
1.1	300	2342	-7.97	-2.13	-6.56	-3.63	7.3	254.
1.5	458.	2500.	-9.00	-1.01	-6.56	-3.63	10.7	254.
1.6	500	2542	-9.88	-0.90	-6.56	-3.63	12.4	254.
2.7	958.	3000.	-15.00	-4.30	-4.92	-1.99	18.4	258.
6.0	1958.	4000.					21.7	287.
9.3	2958.	5000.					27.0	296.

COL CB TRACT ELEV 2042 METERS SOUNDING ID 1646

DATE 03/21/76 TIME 07:00MST ASCENT RATE 600 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WND SPEED M/S	WND DIR DEG
0.0	0.	2042.	0.4	2.5	2.6	190.
0.5	91.	2133.	1.5	1.2	1.9	232.
1.0	271.	2313.	5.4	1.9	5.6	254.
1.5	471.	2513.	10.6	3.0	11.0	254.
2.0	674.	2716.	19.3	6.4	20.8	252.
2.5	879.	2921.	14.5	3.7	14.9	256.
3.0	1059.	3101.	22.5	3.9	22.8	260.
3.5	1209.	3251.	18.8	1.0	18.8	267.
4.0	1359.	3401.	23.9	0.4	23.9	269.
4.5	1509.	3551.	12.4	-2.2	12.6	280.
5.0	1659.	3701.	25.6	-5.1	26.7	276.
5.5	1808.	3850.	20.8	-3.5	21.0	288.
6.0	1958.	4000.	20.8	-6.2	21.7	287.
6.5	2108.	4150.	19.2	-6.6	20.3	289.
7.0	2258.	4300.	19.7	-7.0	20.9	290.
7.5	2408.	4450.	22.0	-5.7	22.4	280.
8.0	2558.	4600.	20.6	-13.4	24.6	303.
8.5	2708.	4750.	25.1	-12.2	27.9	296.
9.0	2858.	4900.	26.5	-12.3	29.2	295.
9.5	3008.	5050.	25.4	-11.5	27.9	296.
10.0	3158.	5200.	29.0	-14.9	32.6	297.
10.5	3308.	5350.	31.5	-13.2	34.1	293.

COL CB TRACT ELEV 2042 METERS SOUNDING ID 1847

DATE 03/21/76 TIME 13:00MST ASCENT RATE 600 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		1.00		0.0		10.3	280.
0.6	150	2192	-2.42	-3.42	-6.89	-3.96	5.6	277.
0.9	300	2342	-4.40	-1.99	-5.74	-2.81	11.0	277.
1.3	458.	2500.	-5.20	-0.72	-5.58	-2.65	12.5	281.
1.4	500	2542	-5.17	-0.04	-5.58	-2.65	12.5	283.
2.8	958.	3000.	-10.80	-5.53	-6.89	-3.96	6.0	295.

COL CB TRACT ELEV 2042 METERS SOUNDING ID 1847

DATE 03/21/76 TIME 13:00MST ASCENT RATE 600 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WND SPEED M/S	WND DIR DEG
0.0	0.	2042.	10.1	-1.8	10.3	280.
0.5	91.	2133.	3.4	-0.4	3.4	277.
1.0	341.	2383.	12.4	-1.5	12.5	277.
1.5	534.	2576.	12.2	-3.0	12.5	284.
2.0	701.	2743.	7.6	-2.1	7.9	286.
2.5	854.	2896.	3.5	-1.9	3.9	299.
3.0	1039.	3081.	7.0	-2.9	7.5	292.
3.5	1231.	3273.	9.5	-1.8	9.6	281.
4.0	1327.	3369.	8.3	0.5	8.3	266.
4.5	1418.	3460.	8.0	-2.2	8.3	285.
5.0	1510.	3552.	7.7	-1.5	7.8	281.
5.5	1601.	3643.	5.6	1.1	5.7	259.
6.0	1693.	3735.	12.3	-0.2	12.3	271.
6.5	1784.	3826.	9.4	0.8	9.5	265.

COL CB TRACT ELEV 2042 METERS SOUNDING ID 1842

DATE 03/23/76 TIME 07:15MST ASCENT RATE 600 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		4.50		0.0		1.5	290.
0.8	150	2192	3.96	-0.54	-1.15	1.78	2.2	132.
1.6	300	2342	3.03	-0.93	-2.79	0.10	6.1	185.
2.5	458.	2500.	1.00	-1.50	-2.62	0.30	12.1	192.
2.7	500	2542	1.04	-0.48	-2.62	0.30	11.2	193.
5.2	958.	3000.	-3.50	-4.04	-3.28	-0.35	15.7	197.
10.0	1958.	4000.	-13.80	-10.20	-3.28	-0.35	16.3	231.

COL CB TRACT ELEV 2042 METERS SOUNDING ID 1842

DATE 03/23/76 TIME 07:15MST ASCENT RATE 600 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WND SPEED M/S	WND DIR DEG
0.0	0.	2042.	1.5	-0.5	1.5	290.
0.5	91.	2133.	-1.7	-1.2	2.1	55.
1.0	183.	2225.	-0.2	2.3	2.3	175.
1.5	274.	2316.	0.2	3.4	3.4	183.
2.0	366.	2408.	2.5	12.8	13.1	191.
2.5	457.	2499.	2.4	11.8	12.1	192.
3.0	549.	2591.	2.7	9.9	10.2	195.
3.5	640.	2682.	3.9	12.9	13.5	197.
4.0	732.	2774.	5.3	11.7	13.3	208.
4.5	823.	2871.	5.4	11.5	12.7	205.
5.0	925.	2967.	-1.1	14.3	14.3	176.
5.5	1020.	3062.	15.6	9.7	18.3	238.
6.0	1120.	3162.	13.8	15.1	20.5	222.
6.5	1225.	3267.	15.1	21.5	26.3	215.
7.0	1330.	3372.	-4.8	10.3	11.4	155.
7.5	1430.	3472.	25.2	7.5	26.3	253.
8.0	1540.	3582.	12.4	14.6	19.2	220.
8.5	1653.	3695.	12.0	14.7	18.9	219.
9.0	1750.	3792.	11.4	13.6	17.7	220.
9.5	1850.	3892.	13.5	13.6	19.1	225.
10.0	1950.	3992.	12.6	10.2	16.2	231.
10.5	2045.	4087.	13.6	11.5	17.8	230.
11.0	2141.	4183.	13.0	9.7	16.3	233.
11.5	2232.	4274.	13.8	11.6	18.0	230.
12.0	2332.	4374.	12.7	11.3	17.0	228.

COL CB TRACT ELEV 2042 METERS SOUNDING ID 1843

DATE 03/23/76 TIME 12:50MST ASCENT RATE 600 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		4.80		0.0		12.9	240.
0.8	150	2192	2.62	-2.18	-2.46	0.47	7.6	190.
1.6	300	2342	1.73	-0.89	-2.13	0.80	12.2	178.
2.4	458.	2500.	0.70	-1.02	-1.48	1.45	8.1	203.
2.6	500	2542	0.51	-0.20	-1.31	1.62	6.9	209.
4.8	958.	3000.	-3.80	-4.29	-4.26	-1.34	16.1	211.
9.4	1958.	4000.	-12.80	-9.02	-2.62	0.30	12.4	234.

COL CB TRACT ELEV 2042 METERS SOUNDING ID 1843

DATE 03/23/76 TIME 12:50MST ASCENT RATE 600 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WND SPEED M/S	WND DIR DEG
0.0	0.	2042.	11.1	6.4	12.9	240.
0.5	91.	2133.	2.4	7.0	7.4	199.
1.0	199.	2241.	0.4	7.7	7.7	183.
1.5	290.	2332.	-1.2	12.1	12.2	174.
2.0	382.	2424.	5.1	10.6	11.8	206.
2.5	473.	2515.	2.9	6.8	7.4	203.
3.0	565.	2607.	4.0	4.2	5.8	223.
3.5	656.	2698.	4.5	11.7	12.5	201.
4.0	748.	2790.	6.3	12.1	13.6	207.
4.5	873.	2915.	8.1	13.5	15.8	211.
5.0	1012.	3054.	8.4	13.9	16.3	211.
5.5	1137.	3179.	8.4	10.1	13.1	220.
6.0	1257.	3299.	9.7	11.3	14.9	221.
6.5	1358.	3400.	8.2	7.0	10.7	230.
7.0	1476.	3518.	11.6	9.0	14.7	232.
7.5	1606.	3648.	12.2	11.4	16.7	227.
8.0	1697.	3739.	10.2	8.0	13.0	232.
8.5	1788.	3830.	10.7	6.4	12.5	239.
9.0	1888.	3930.	11.5	7.0	13.5	239.
9.5	1980.	4022.	9.6	7.3	12.0	233.
10.0	2071.	4113.	9.7	5.5	11.1	240.
10.5	2171.	4213.	10.8	7.7	13.3	235.
11.0	2271.	4313.	9.8	6.5	11.8	237.
11.5	2363.	4405.	4.8	9.4	10.5	207.
12.0	2454.	4496.	12.8	5.0	13.8	249.
12.5	2546.	4588.	9.5	8.0	12.4	230.
13.0	2637.	4679.	10.2	10.2	14.4	225.

COL CB TRACT ELEV 2042 METERS SOUNDING ID 1841

DATE 03/25/76 TIME 07:10MST ASCENT RATE 600 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		8.00		0.0		12.9	240.
0.8	150	2192	7.75	-0.25	-2.30	0.63	8.2	198.
1.6	300	2342	6.33	-1.42	-2.62	0.30	11.8	196.
2.5	458.	2500.	4.00	-1.76	-2.30	0.63	14.0	202.
2.7	500	2542	4.05	-0.52	-2.30	0.63	15.5	204.
5.1	958.	3000.	0.0	-3.74	-3.12	-0.19	14.4	212.
9.6	1958.	4000.					15.4	243.

COL CB TRACT ELEV 2042 METERS SOUNDING ID 1841

DATE 03/25/76 TIME 07:10MST ASCENT RATE 600 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WND SPEED M/S	WND DIR DEG
0.0	0.	2042.	11.1	6.4	12.9	240.
0.5	91.	2133.	2.7	7.6	8.1	200.
1.0	183.	2225.	2.5	7.8	8.2	198.
1.5	274.	2316.	2.8	10.3	10.7	195.
2.0	366.	2408.	4.6	13.7	14.4	199.
2.5	457.	2499.	5.2	12.9	13.9	202.
3.0	557.	2599.	7.7	15.9	17.6	206.
3.5	649.	2691.	3.9	6.9	7.9	210.
4.0	740.	2782.	9.0	17.7	19.8	207.
4.5	838.	2880.	6.2	10.8	12.5	210.
5.0	933.	2975.	7.9	12.7	14.9	212.
5.5	1026.	3068.	6.8	10.9	12.9	212.
6.0	1131.	3173.	7.7	10.9	13.4	215.
6.5	1246.	3288.	8.7	7.5	11.5	229.
7.0	1361.	3403.	9.5	7.7	12.2	231.
7.5	1476.	3518.	10.9	6.2	12.5	240.
8.0	1591.	3633.	11.5	8.3	14.2	234.
8.5	1706.	3748.	12.6	7.0	14.6	242.
9.0	1821.	3863.	10.8	6.1	12.4	241.
9.5	1936.	3978.	14.3	6.9	15.9	244.
10.0	2051.	4093.	11.3	6.8	13.2	239.
10.5	2166.	4208.	12.0	8.3	14.6	235.
11.0	2281.	4323.	11.6	8.6	14.4	233.
11.5	2396.	4438.	10.9	6.5	12.7	239.
12.0	2511.	4553.	13.3	9.5	16.4	234.
12.5	2626.	4668.	12.7	7.4	14.7	240.

COL CB TRACT ELEV 2042 METERS SOUNDING ID 1839

DATE 03/25/76 TIME 13:00MST ASCENT RATE 600 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		-5.80		0.0		2.6	360.
0.8	150	2192	-7.16	-1.36	-1.97	0.96		
1.6	300	2342	-8.28	-1.12	-3.28	-0.35		
2.5	458.	2500.	-9.20	-0.92	-1.31	1.62		
2.7	500	2542	-9.50	-0.30	-1.31	1.62		
5.2	958.	3000.	-11.70	-2.20	-1.64	1.29		

COL CB TRACT ELEV 2042 METERS SOUNDING ID 1839

DATE 03/25/76 TIME 13:00MST ASCENT RATE 600 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WND SPEED M/S	WND DIR DEG
0.0	0.	2042.	0.0	-2.6	2.6	360.

COL CR TRACT ELEV 2042 METERS SOUNDING ID 1837

DATE 03/27/76 TIME 07:00MST ASCENT RATE 600 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		0.80		0.0		3.1	170.
0.8	150	2192	-0.66	-1.46	-0.33	2.60	9.7	153.
1.6	300	2342	-0.89	-0.22	-0.49	2.44	15.0	179.
2.5	458.	2500.	-1.20	-0.20	-1.48	1.45	23.3	180.
2.7	500	2542	-1.19	-0.10	-1.48	1.45	17.3	183.
5.2	958.	3000.	-4.20	-2.61	-2.13	0.80	14.2	200.
10.7	1958.	4000.					19.2	221.

COL CR TRACT ELEV 2042 METERS SOUNDING ID 1837

DATE 03/27/76 TIME 07:00MST ASCENT RATE 600 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WND SPEED M/S	WND DIR DEG
0.0	0.	2042.	-0.5	3.0	3.1	170.
0.5	91.	2133.	-5.6	6.9	8.9	141.
1.0	183.	2225.	-3.6	9.6	10.2	160.
1.5	274.	2316.	-0.3	14.2	14.2	179.
2.0	366.	2408.	0.0	16.9	16.9	180.
2.5	457.	2499.	-0.1	23.5	23.5	180.
3.0	549.	2591.	1.1	10.3	10.4	186.
3.5	640.	2682.	1.4	17.1	17.1	185.
4.0	732.	2774.	2.0	17.2	17.3	187.
4.5	823.	2865.	3.7	11.3	11.9	198.
5.0	914.	2956.	4.2	12.9	13.6	198.
5.5	1006.	3048.	5.4	13.8	14.8	201.
6.0	1097.	3139.	3.4	13.8	14.2	194.
6.5	1189.	3231.	6.0	13.5	14.8	204.
7.0	1280.	3322.	5.6	15.1	16.1	200.
7.5	1372.	3414.	6.7	15.2	16.6	204.
8.0	1463.	3505.	2.3	16.0	16.2	188.
8.5	1554.	3596.	7.9	13.3	15.5	211.
9.0	1646.	3688.	7.7	13.2	15.3	210.
9.5	1737.	3779.	8.7	12.9	15.6	214.
10.0	1829.	3871.	12.3	14.4	19.0	221.
10.5	1920.	3962.	10.8	14.9	18.4	216.
11.0	2012.	4054.	14.8	13.9	20.3	227.
11.5	2103.	4145.	15.9	13.5	20.9	230.
12.0	2195.	4237.	12.9	14.6	19.5	222.
12.5	2286.	4328.	11.3	11.8	16.3	224.
13.0	2377.	4419.	11.1	11.7	16.1	223.
13.5	2469.	4511.	10.1	8.2	13.0	231.
14.0	2560.	4602.	11.8	11.1	16.2	227.
14.5	2652.	4694.	13.1	14.6	19.6	222.

COL CB TRACT ELEV 2042 METERS SOUNDING ID 1835

DATE 03/27/76 TIME 13:00MST ASCENT RATE 600 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		10.50		0.0		14.4	190.
0.7	150	2192	8.52	-1.98	-4.43	-1.50	6.3	191.
1.3	300	2342					14.1	194.
1.9	458.	2500.					12.9	192.
2.0	500	2542					11.1	190.
3.7	958.	3000.					13.0	181.
7.4	1958.	4000.					17.8	196.
11.1	2958.	5000.					29.5	207.

COL CB TRACT ELEV 2042 METERS SOUNDING ID 1835

DATE 03/27/76 TIME 13:00MST ASCENT RATE 600 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WND SPEED M/S	AND DIR DEG
0.0	0.	2042.	2.5	14.2	14.4	190.
0.5	91.	2133.	0.6	3.0	3.0	191.
1.0	226.	2268.	2.0	10.4	10.6	191.
1.5	361.	2403.	4.6	16.4	17.0	196.
2.0	496.	2538.	2.1	11.0	11.2	191.
2.5	631.	2673.	-0.6	8.6	8.6	176.
3.0	766.	2808.	1.1	7.5	7.6	189.
3.5	901.	2943.	-0.4	10.0	10.0	178.
4.0	1036.	3078.	1.5	17.1	17.2	185.
4.5	1171.	3213.	2.6	16.9	17.1	189.
5.0	1306.	3348.	4.1	18.2	18.6	193.
5.5	1441.	3483.	4.3	15.7	16.2	195.
6.0	1576.	3618.	5.9	20.8	21.6	196.
6.5	1711.	3753.	5.1	18.0	18.7	196.
7.0	1846.	3888.	5.3	20.4	21.0	195.
7.5	1981.	4023.	4.8	16.5	17.1	196.
8.0	2116.	4158.	9.6	20.4	22.5	205.
8.5	2251.	4293.	11.0	19.6	22.5	209.
9.0	2386.	4428.	12.8	22.1	25.6	210.
9.5	2521.	4563.	11.6	19.7	22.8	211.
10.0	2656.	4698.	17.0	18.8	25.3	222.
10.5	2791.	4833.	16.4	25.0	29.9	213.
11.0	2926.	4968.	10.2	26.4	28.3	201.
11.5	3061.	5103.	24.4	22.7	33.4	227.
12.0	3196.	5238.	16.4	23.9	29.0	214.
12.5	3331.	5373.	20.6	31.6	37.8	213.
13.0	3466.	5508.	19.3	26.1	32.5	216.
13.5	3601.	5643.	17.9	23.4	29.5	217.
14.0	3736.	5778.	22.8	27.4	35.6	220.
14.5	3870.	5912.	20.3	24.6	31.9	220.

COL CB TRACT ELEV 2042 METERS SOUNDING ID 1833

DATE 03/29/76 TIME 07:15MST ASCENT RATE 600 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		-3.00		0.0		1.0	360.
0.8	150	2192	-2.90	0.10	-1.15	1.78	1.9	313.
1.6	300	2342	-4.15	-1.25	-2.79	0.14	5.6	101.
2.4	458.	2500.	-5.20	-1.04	-3.28	-0.35	7.9	53.
2.6	500	2542	-6.45	-1.25	-4.26	-1.34	8.6	11.
4.9	958.	?3000.	-10.59	-4.14	-2.46	0.47	8.3	3.
10.3	1958.	?4000.	-20.19	-9.60	-2.95	-0.02	9.0	12.
15.2	2958.	5000.	-29.80	-9.61	-2.79	0.14		

COL CB TRACT ELEV 2042 METERS SOUNDING ID 1833

DATE 03/29/76 TIME 07:15MST ASCENT RATE 600 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WND SPEED M/S	WND DIR DEG
0.0	0.	2042.	0.0	-1.0	1.0	360.
0.5	91.	2133.	1.1	-0.3	1.2	287.
1.0	183.	2225.	1.3	-2.0	2.4	328.
1.5	274.	2316.	-0.6	-5.6	5.6	6.
2.0	368.	2410.	0.9	-5.7	5.7	351.
2.5	471.	2513.	-1.5	-8.1	8.2	11.
3.0	576.	2618.	-1.8	-9.5	9.7	11.
3.5	686.	2728.	-1.1	-9.2	9.3	7.
4.0	791.	2833.	-0.9	-9.6	9.6	6.
4.5	887.	2929.	-0.7	-9.5	9.5	4.
5.0	979.	3021.	-0.3	-7.9	7.9	2.
5.5	1070.	3112.	0.5	-8.0	8.0	357.
6.0	1161.	3203.	1.1	-8.8	8.8	353.
6.5	1256.	3298.	0.8	-8.2	8.2	355.
7.0	1348.	3390.	0.4	-8.6	8.6	357.
7.5	1439.	3481.	-0.3	-8.4	8.4	2.
8.0	1535.	3577.	-0.1	-8.4	8.4	1.
8.5	1631.	3673.	-0.5	-7.9	8.0	4.
9.0	1722.	3764.	-0.6	-7.0	7.1	5.
9.5	1814.	3856.	-1.4	-7.7	7.8	10.
10.0	1905.	3947.	-1.8	-7.7	7.9	13.
10.5	2001.	4043.	-2.0	-9.6	9.9	12.
11.0	2094.	4136.	-2.3	-10.5	10.8	12.
11.5	2185.	4227.	-1.2	-9.1	9.1	7.
12.0	2279.	4321.	-0.6	-9.4	9.4	4.

COL C8 TRACT ELEV 2042 METERS SOUNDING ID 1834

)ATE C3/29/76 TIME 13:30MST ASCENT RATE 600 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		2.80		0.0		7.7	360.
0.8	? 150	2192	1.32	-1.48	-7.38	-4.45	3.2	184.
1.2	? 300	2342	-0.14	-1.46	-8.04	-5.11	5.3	350.
1.5	458.	?2500.	-2.48	-2.34	-8.04	-5.11	7.8	352.
1.6	? 500	2542	-3.58	-1.10	-8.04	-5.11	7.9	350.
2.6	958.	?3000.	-7.49	-3.92	-7.87	-4.94	8.7	335.
4.6	1958.	4000.	-17.35	-9.86	-6.40	-3.47		
7.2	2958.	5000.	-26.69	-9.34	-5.58	-2.65		
11.9	3958.	6000.	-34.20	-7.51	-2.79	0.14		

COL CB TRACT ELEV 2042 METERS SOUNDING ID 1834

)ATE C3/29/76 TIME 13:30MST ASCENT RATE 600 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WND SPEED M/S	WND DIR DEG
0.0	0.	2042.	0.0	-7.7	7.7	360.
0.5	91.	2133.	-0.4	-2.8	2.8	8.
1.0	205.	2247.	0.7	-3.4	3.5	348.
1.5	440.	2482.	1.0	-7.7	7.8	353.
2.0	685.	2727.	2.8	-7.6	8.1	340.
2.5	929.	2971.	3.5	-7.8	8.5	336.
3.0	1174.	3216.	4.7	-8.5	9.7	331.
3.5	1417.	3459.	3.2	-8.5	9.1	339.
4.0	1662.	3704.	3.9	-9.8	10.5	338.
4.5	1907.	3949.	1.3	-4.0	4.2	342.

COL CR TRACT ELEV 2042 METERS SOUNDING ID 1836

DATE 03/31/76 TIME 07:10MST ASCENT RATE 600 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		0.50		0.0		0.0	0.
0.8	150	2192	-0.66	-1.16	-1.31	1.62	2.3	144.
1.6	300	2342	-0.99	-0.32	-0.98	1.94	2.1	154.
2.5	458.	2500.	-1.50	-0.41	-0.16	2.76	1.2	215.
2.7	500	2542	-1.49	-0.09	-0.16	2.76	1.7	201.
5.2	958.	3000.	-2.90	-1.21	-1.48	1.45	7.0	255.
10.7	1958.	4000.	-5.90	-3.00	-2.30	0.63	3.2	289.
16.1	2958.	5000.	-13.00	-7.30	-1.31	1.62		

COL CR TRACT ELEV 2042 METERS SOUNDING ID 1836

DATE 03/31/76 TIME 07:10MST ASCENT RATE 600 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WND SPEED M/S	WND DIR DEG
0.0	0.	2042.	0.0	0.0	0.0	0.
0.5	91.	2133.	-2.1	1.4	2.5	124.
1.0	183.	2225.	-0.9	1.9	2.2	154.
1.5	274.	2316.	-1.4	1.7	2.2	140.
2.0	366.	2408.	0.3	1.7	1.8	188.
2.5	457.	2499.	0.7	1.0	1.2	215.
3.0	549.	2591.	0.2	2.2	2.2	186.
3.5	640.	2682.	-1.1	2.4	2.6	156.
4.0	732.	2774.	-1.1	2.9	3.1	159.
4.5	823.	2865.	0.7	1.3	1.5	207.
5.0	914.	2956.	5.0	5.4	7.4	223.
5.5	1006.	3048.	6.1	-2.4	6.6	291.
6.0	1097.	3139.	2.1	-3.1	3.8	326.
6.5	1189.	3231.	3.0	-3.6	4.1	331.
7.0	1280.	3322.	3.8	-2.8	4.1	312.
7.5	1372.	3414.	4.8	-2.0	5.2	293.
8.0	1463.	3505.	5.5	-0.6	5.5	277.
8.5	1554.	3596.	4.9	-0.5	5.0	276.
9.0	1646.	3688.	3.8	-0.3	3.8	274.
9.5	1737.	3779.	4.2	-0.6	4.2	278.
10.0	1829.	3871.	12.8	-3.0	13.1	283.
10.5	1920.	3962.	1.9	-0.8	2.0	292.
11.0	2012.	4054.	4.8	-1.2	5.0	284.
11.5	2103.	4145.	5.8	-1.3	5.9	283.
12.0	2195.	4237.	5.2	-1.3	5.3	284.
12.5	2286.	4328.	5.4	-0.6	5.5	277.
13.0	2377.	4419.	5.0	-0.3	5.1	274.

COL CR TRACT ELEV 2042 METERS SOUNDING ID 1838

DATE 03/31/76 TIME 13:30MST ASCENT RATE 600 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		8.70		0.0		4.1	180.
0.8	150	2192	7.15	-1.55	-4.59	-1.66	6.8	143.
1.4	300	2342	5.28	-1.87	-3.61	-0.68	13.1	145.
2.1	458.	2500.	3.70	-1.24	-4.26	-1.34	4.3	169.
2.3	500	2542	3.72	-0.33	-4.26	-1.34	2.5	188.
4.7	958.	3000.	-0.10	-3.72	-1.64	1.29	4.5	191.
10.1	1958.	4000.	-8.00	-7.80	-1.97	0.96	5.2	203.
15.2	2958.	5000.	-16.20	-8.40	-3.61	-0.68		
19.8	3958.	6000.	-26.10	-9.90	-3.94	-1.01		

COL CR TRACT ELEV 2042 METERS SOUNDING ID 1838

DATE 03/31/76 TIME 13:30MST ASCENT RATE 600 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WND SPEED M/S	WND DIR DEG
0.0	0.	2042.	-0.0	4.1	4.1	180.
0.5	91.	2133.	-2.3	3.3	4.1	145.
1.0	200.	2242.	-5.7	7.0	9.1	141.
1.5	335.	2377.	-8.0	12.1	14.5	147.
2.0	440.	2482.	-1.7	4.7	5.0	161.
2.5	531.	2573.	0.5	1.1	1.2	202.
3.0	606.	2686.	0.6	2.0	2.1	196.
3.5	737.	2779.	0.2	0.8	0.8	192.
4.0	829.	2871.	0.9	3.9	4.0	193.
4.5	922.	2964.	0.5	4.5	4.5	184.
5.0	1014.	3056.	1.6	4.3	4.6	200.
5.5	1105.	3147.	3.5	2.7	4.4	233.
6.0	1212.	3254.	2.6	4.0	4.8	212.
6.5	1307.	3349.	2.3	3.5	4.2	214.
7.0	1399.	3441.	3.8	3.2	5.0	230.
7.5	1490.	3532.	4.7	2.4	5.3	243.
8.0	1582.	3624.	5.5	1.8	5.8	252.
8.5	1673.	3715.	2.0	3.1	3.7	214.
9.0	1765.	3807.	3.2	3.0	4.4	226.
9.5	1856.	3898.	2.4	5.3	5.8	205.
10.0	1947.	3989.	1.9	4.8	5.1	202.
10.5	2039.	4081.	2.8	5.3	6.0	208.
11.0	2132.	4174.	2.2	4.8	5.3	205.
11.5	2237.	4279.	2.4	6.5	6.9	201.
12.0	2329.	4371.	1.3	5.3	5.5	193.
12.5	2420.	4462.	2.6	5.1	5.7	207.
13.0	2511.	4553.	2.7	3.9	4.8	215.

COL CB TRACT ELEV 2042 METERS SOUNDING ID 1693

DATE 03/05/76 TIME 07:00MST ASCENT RATE 600 FPM DATA INTERVAL 15 SEC.

INV BASE METERS AGL	INV TOP METERS AGL	INV DT/DZ (DEG C)/100M	DT/DZ BELOW INV (DEG C)/100M
0.	91.	2.76	0.0

COL CB TRACT ELEV 2042 METERS SOUNDING ID 1692

DATE 03/07/76 TIME 07:00MST ASCENT RATE 600 FPM DATA INTERVAL 15 SEC.

INV BASE METERS AGL	INV TOP METERS AGL	INV DT/DZ (DEG C)/100M	DT/DZ BELOW INV (DEG C)/100M
823.	869.	0.0	-0.70

COL CB TRACT ELEV 2042 METERS SOUNDING ID 1690

DATE 03/07/76 TIME 12:55MST ASCENT RATE 600 FPM DATA INTERVAL 15 SEC.

INV BASE METERS AGL	INV TOP METERS AGL	INV DT/DZ (DEG C)/100M	DT/DZ BELOW INV (DEG C)/100M
0.	1332.	0.03	0.0

COL CB TRACT ELEV 2042 METERS SOUNDING ID 1693

DATE 03/09/76 TIME 07:15MST ASCENT RATE 600 FPM DATA INTERVAL 15 SEC.

INV BASE METERS AGL	INV TOP METERS AGL	INV DT/DZ (DEG C)/100M	DT/DZ BELOW INV (DEG C)/100M
0.	320.	0.72	0.0

COL CB TRACT ELEV 2042 METERS SOUNDING ID 1696

DATE 03/09/76 TIME 13:30MST ASCENT RATE 600 FPM DATA INTERVAL 15 SEC.

INV BASE METERS AGL	INV TOP METERS AGL	INV DT/DZ (DEG C)/100M	DT/DZ BELOW INV (DEG C)/100M
46.	91.	0.0	-0.79

COL CB TRACT ELEV 2042 METERS SOUNDING ID 1688

DATE 03/11/76 TIME 06:45MST ASCENT RATE 600 FPM DATA INTERVAL 15 SEC.

INV BASE METERS AGL	INV TOP METERS AGL	INV DT/DZ (DEG C)/100M	DT/DZ BELOW INV (DEG C)/100M
0.	91.	2.12	0.0

****

COL CB TRACT ELEV 2042 METERS SOUNDING ID 1686

DATE 03/11/76 TIME 13:45MST ASCENT RATE 600 FPM DATA INTERVAL 15 SEC.

INV BASE METERS AGL	INV TOP METERS AGL	INV DT/DZ (DEG C)/100M	DT/DZ BELOW INV (DEG C)/100M
237.	283.	0.0	-0.97

****

COL CB TRACT ELEV 2042 METERS SOUNDING ID 1687

DATE 03/13/76 TIME 07:15MST ASCENT RATE 600 FPM DATA INTERVAL 15 SEC.

INV BASE METERS AGL	INV TOP METERS AGL	INV DT/DZ (DEG C)/100M	DT/DZ BELOW INV (DEG C)/100M
0.	457.	1.42	0.0

****

COL CB TRACT ELEV 2042 METERS SOUNDING ID 1685

DATE 03/13/76 TIME 13:00MST ASCENT RATE 600 FPM DATA INTERVAL 15 SEC.

INV BASE METERS AGL	INV TOP METERS AGL	INV DT/DZ (DEG C)/100M	DT/DZ BELOW INV (DEG C)/100M
91.	169.	0.0	-1.82

****

COL CB TRACT ELEV 2042 METERS SOUNDING ID 1684

DATE 03/15/76 TIME 07:15MST ASCENT RATE 600 FPM DATA INTERVAL 15 SEC.

INV BASE METERS AGL	INV TOP METERS AGL	INV DT/DZ (DEG C)/100M	DT/DZ BELOW INV (DEG C)/100M
0.	91.	0.55	0.0

****

COL CB TRACT ELEV 2042 METERS SOUNDING ID 1682

DATE 03/15/76 TIME 13:30MST ASCENT RATE 600 FPM DATA INTERVAL 15 SEC.

INV BASE METERS AGL	INV TOP METERS AGL	INV DT/DZ (DEG C)/100M	DT/DZ BELOW INV (DEG C)/100M
720.	766.	0.61	-1.05

****

COL CB TRACT ELEV 2042 METERS SOUNDING ID 1681

DATE 03/17/76 TIME 07:15MST ASCENT RATE 600 FPM DATA INTERVAL 15 SEC.

THERE ARE NO INVERSION BASES WITHIN 0M OF THE SFC

LAYER BASE METERS AGL	LAYER TOP METERS AGL	DT/DZ (DEG C)/100M
0.	100.	-1.03
100.	250.	-1.00
250.	500.	-0.76
500.	750.	-0.81
750.	1000.	-0.84
1000.	1500.	-0.90

COL CB TRACT ELEV 2042 METERS SOUNDING ID 1842

DATE 03/17/76 TIME 13:30MST ASCENT RATE 600 FPM DATA INTERVAL 15 SEC.

THERE ARE NO INVERSION BASES WITHIN 1500M OF THE SFC

LAYER BASE METERS AGL	LAYER TOP METERS AGL	DT/DZ (DEG C)/100M
0.	100.	-0.93
100.	250.	-1.05
250.	500.	-1.13
500.	750.	-0.87
750.	1000.	-0.88
1000.	1500.	-1.06

COL CB TRACT ELEV 2042 METERS SOUNDING ID 1848

DATE 03/19/76 TIME 07:20MST ASCENT RATE 600 FPM DATA INTERVAL 15 SEC.

INV BASE METERS AGL	INV TOP METERS AGL	INV DT/DZ (DEG C)/100M	DT/DZ BELOW INV (DEG C)/100M
1341.	1478.	0.36	-0.85

COL CB TRACT ELEV 2042 METERS SOUNDING ID 1844

DATE 03/19/76 TIME 13:30MST ASCENT RATE 600 FPM DATA INTERVAL 15 SEC.

THERE ARE NO INVERSION BASES WITHIN 1500M OF THE SFC

LAYER BASE METERS AGL	LAYER TOP METERS AGL	DT/DZ (DEG C)/100M
0.	100.	-2.44
100.	250.	-0.86
250.	500.	-0.95
500.	750.	-1.04
750.	1000.	-0.96
1000.	1500.	-0.99

COL CB TRACT ELEV 2042 METERS SOUNDING ID 1846

DATE 03/21/76 TIME 07:00MST ASCENT RATE 600 FPM DATA INTERVAL 15 SEC.

THERE ARE INSUFFICIENT DATA WITHIN 2000M OF THE SFC

COL CB TRACT ELEV 2042 METERS SOUNDING ID 1847

DATE 03/21/76 TIME 13:00MST ASCENT RATE 600 FPM DATA INTERVAL 15 SEC.

INV BASE METERS AGL	INV TOP METERS AGL	INV DT/DZ (DEG C)/100M	DT/DZ BELOW INV (DEG C)/100M
1281.	1327.	0.44	-1.09

COL CB TRACT ELEV 2042 METERS SOUNDING ID 1842

DATE 03/23/76 TIME 07:15MST ASCENT RATE 600 FPM DATA INTERVAL 15 SEC.

INV BASE METERS AGL	INV TOP METERS AGL	INV DT/DZ (DEG C)/100M	DT/DZ BELOW INV (DEG C)/100M
0.	46.	0.66	0.0

COL CB TRACT ELEV 2042 METERS SOUNDING ID 1843

DATE 03/23/76 TIME 12:50MST ASCENT RATE 600 FPM DATA INTERVAL 15 SEC.

THERE ARE NO INVERSION BASES WITHIN 1500M OF THE SFC

LAYER BASE METERS AGL	LAYER TOP METERS AGL	DT/DZ (DEG C)/100M
0.	100.	-1.37
100.	250.	-0.83
250.	500.	-0.64
500.	750.	-0.64
750.	1000.	-1.08
1000.	1500.	-1.02

COL CB TRACT ELEV 2042 METERS SOUNDING ID 1841

DATE 03/25/76 TIME 07:10MST ASCENT RATE 600 FPM DATA INTERVAL 15 SEC.

THERE ARE INSUFFICIENT DATA WITHIN 2000M OF THE SFC

COL CB TRACT ELEV 2042 METERS SOUNDING ID 1839

DATE 03/25/76 TIME 13:00MST ASCENT RATE 600 FPM DATA INTERVAL 15 SEC.

THERE ARE INSUFFICIENT DATA WITHIN 2000M OF THE SFC

COL CB TRACT ELEV 2042 METERS SOUNDING ID 1837

DATE 03/27/76 TIME 07:00MST ASCENT RATE 600 FPM DATA INTERVAL 15 SEC.

THERE ARE INSUFFICIENT DATA WITHIN 2000M OF THE SFC

COL CB TRACT ELEV 2042 METERS SOUNDING ID 1835

DATE 03/27/76 TIME 13:00MST ASCENT RATE 600 FPM DATA INTERVAL 15 SEC.

THERE ARE INSUFFICIENT DATA WITHIN 2000M OF THE SFC

-1.05

COL CB TRACT ELEV 2042 METERS SOUNDING ID 1833

DATE 03/29/76 TIME 07:15MST ASCENT RATE 600 FPM DATA INTERVAL 15 SEC.

INV BASE METERS AGL	INV TOP METERS AGL	INV DT/DZ (DEG C)/100M	DT/DZ BELOW INV (DEG C)/100M
0.	91.	0.22	0.0

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COL CB TRACT ELEV 2042 METERS SOUNDING ID 1834

DATE 03/29/76 TIME 13:30MST ASCENT RATE 600 FPM DATA INTERVAL 15 SEC.

INV BASE METERS AGL	INV TOP METERS AGL	INV DT/DZ (DEG C)/100M	DT/DZ BELOW INV (DEG C)/100M
46.	91.	1.09	-0.66

****

COL CB TRACT ELEV 2042 METERS SOUNDING ID 1836

DATE 03/31/76 TIME 07:10MST ASCENT RATE 600 FPM DATA INTERVAL 15 SEC.

INV BASE METERS AGL	INV TOP METERS AGL	INV DT/DZ (DEG C)/100M	DT/DZ BELOW INV (DEG C)/100M
183.	229.	0.0	-0.66

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COL CB TRACT ELEV 2042 METERS SOUNDING ID 1838

DATE 03/31/76 TIME 13:30MST ASCENT RATE 600 FPM DATA INTERVAL 15 SEC.

INV BASE METERS AGL	INV TOP METERS AGL	INV DT/DZ (DEG C)/100M	DT/DZ BELOW INV (DEG C)/100M
922.	968.	0.0	-0.94

MONTH: MARCH YEAR: 1976. COL CB TRACT ELEV 2042 METERS

HOLZWORTH'S CLASSIFICATION SCHEME FOR INVERSIONS
MODIFIED TO SHOW TOTAL NUMBER INSTEAD OF PERCENT

	INVERSION BASE HEIGHT (M)										
THICKNESS (METERS)	SFC	1- 100	101- 250	251- 500	501- 750	751- 1000	1000- 1500	1501- 2000	2001- 2500	2501- 3000	TOTAL
1 - 100	5	3	2	0	1	2	1	0	0	0	14
101 - 250	0	0	0	0	0	0	1	0	0	0	1
251 - 500	2	0	0	0	0	0	0	0	0	0	2
501 - 750	0	0	0	0	0	0	0	0	0	0	0
751 - 1000	0	0	0	0	0	0	0	0	0	0	0
1001 - 1500	1	0	0	0	0	0	0	0	0	0	1
> 1500	0	0	0	0	0	0	0	0	0	0	0
INV TOTAL	8	3	2	0	1	2	2	0	0	0	18
DT/DZ 5		0	0	0	0	0	0	0	0	0	0
FROM INV 4		2	1	0	0	1	0	0	0	0	4
BASE 3		0	1	0	1	1	2	0	0	0	5
TO 2		0	0	0	0	0	0	0	0	0	0
SFC 1		1	0	0	0	0	0	0	0	0	1
NO INV TOT		4	4	4	4	4	4				
DT/DZ FOR 5		0	0	0	0	0	0				
SAME 4		0	0	2	1	0	0				
LAYERS 3		2	4	2	3	4	4				
AS INV 2		1	0	0	0	0	0				
BASE 1		1	0	0	0	0	0				

DT/DZ (DEG C)/100M
5= 0.00 TO -0.40
4=-0.41 TO -0.80
3=-0.81 TO -1.20
2=-1.21 TO -1.60
1=<-1.60

MONTH: MARCH YEAR: 1976. COL CB TRACT SFC TO 500 METERS

NORMALIZED FREQUENCY DISTRIBUTION

DIRECTION	SPEED (METER/SEC) 0-3	4-6	7-10	11-16	17-21	GREATER THAN 21	AVERAGE SPEED	TOTAL
N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ENE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
W	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AVG SPEED	0.0	0.0	0.0	0.0	0.0	0.0		0.0
TOTAL	0.0	0.0	0.0	0.0	0.0	0.0		0.0

RELATIVE FREQUENCY OF OCCURRENCE OF THE A STABILITY CLASS IS 0.0

RELATIVE FREQUENCY OF CALM 0.0

A TOTAL OF 3 SOUNDINGS FROM A SAMPLE OF 27 SOUNDINGS DID NOT HAVE 500 M OF TEMP AND WIND DATA

MONTH: MARCH YEAR: 1976. COL CB TRACT SFC TO 500 METERS

NORMALIZED FREQUENCY DISTRIBUTION

DIRECTION	SPEED (METER/SEC) 0-3	4-6	7-10	11-16	17-21	GREATER THAN 21	AVERAGE SPEED	TOTAL
N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ENE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	0.0	1.00	0.0	0.0	0.0	0.0	3.1	1.00
SSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
W	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AVG SPEED	0.0	3.1	0.0	0.0	0.0	0.0		0.0
TOTAL	0.0	1.00	0.0	0.0	0.0	0.0		1.00

RELATIVE FREQUENCY OF OCCURRENCE OF THE B STABILITY CLASS IS 0.04

RELATIVE FREQUENCY OF CALM 0.0

A TOTAL OF 3 SOUNDINGS FROM A SAMPLE OF 27 SOUNDINGS DID NOT HAVE 500 M OF TEMP AND WIND DATA

MONTH: MARCH YEAR: 1976. COL CB TRACT SFC TO 500 METERS

NORMALIZED FREQUENCY DISTRIBUTION

DIRECTION	SPEED (METER/SEC) 0-3	4-6	7-10	11-16	17-21	GREATER THAN 21	AVERAGE SPEED	TOTAL
N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ENE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
W	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AVG SPEED	0.0	0.0	0.0	0.0	0.0	0.0		0.0
TOTAL	0.0	0.0	0.0	0.0	0.0	0.0		0.0

RELATIVE FREQUENCY OF OCCURRENCE OF THE C STABILITY CLASS IS 0.0

RELATIVE FREQUENCY OF CALM 0.0

A TOTAL OF 3 SOUNDINGS FROM A SAMPLE OF 27 SOUNDINGS DID NOT HAVE 500 M OF TEMP AND WIND DATA

MONTH: MARCH YEAR: 1976. COL CB TRACT SFC TO 500 METERS

NORMALIZED FREQUENCY DISTRIBUTION

DIRECTION	SPEED (METER/SEC) 0-3	4-6	7-10	11-16	17-21	GREATER THAN 21	AVERAGE SPEED	TOTAL
N	0.0	0.06	0.0	0.0	0.0	0.0	4.6	0.06
NNE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ENE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSE	0.0	0.0	0.06	0.06	0.0	0.0	10.7	0.11
S	0.0	0.0	0.0	0.06	0.0	0.0	11.1	0.06
SSW	0.0	0.06	0.17	0.06	0.0	0.0	7.6	0.28
SW	0.0	0.11	0.0	0.0	0.0	0.0	4.5	0.11
WSW	0.0	0.0	0.06	0.0	0.0	0.0	6.9	0.06
W	0.0	0.0	0.0	0.06	0.0	0.0	15.9	0.06
WNW	0.0	0.06	0.06	0.0	0.0	0.0	7.0	0.11
NW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNW	0.06	0.06	0.06	0.0	0.0	0.0	4.5	0.17
AVG SPEED	1.6	4.6	7.5	13.2	0.0	0.0		0.0
TOTAL	0.06	0.33	0.39	0.22	0.0	0.0		1.00

RELATIVE FREQUENCY OF OCCURRENCE OF THE D STABILITY CLASS IS 0.75

RELATIVE FREQUENCY OF CALM 0.0

A TOTAL OF 3 SOUNDINGS FROM A SAMPLE OF 27 SOUNDINGS DID NOT HAVE 500 M OF TEMP AND WIND DATA

MONTH: MARCH YEAR: 1976. COL CB TRACT SFC TO 500 METERS

NORMALIZED FREQUENCY DISTRIBUTION

DIRECTION	SPEED (METER/SEC) 0-3	4-6	7-10	11-16	17-21	GREATER THAN 21	AVERAGE SPEED	TOTAL
N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ENE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSE	0.20	0.0	0.0	0.0	0.0	0.0	1.7	0.20
S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSW	0.40	0.20	0.0	0.0	0.0	0.0	2.6	0.60
SW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
W	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNW	0.0	0.20	0.0	0.0	0.0	0.0	3.9	0.20
AVG SPEED	2.1	3.5	0.0	0.0	0.0	0.0		0.0
TOTAL	0.60	0.40	0.0	0.0	0.0	0.0		1.00

RELATIVE FREQUENCY OF OCCURRENCE OF THE E STABILITY CLASS IS 0.21

RELATIVE FREQUENCY OF CALM 0.0

A TOTAL OF 3 SOUNDINGS FROM A SAMPLE OF 27 SOUNDINGS DID NOT HAVE 500 M OF TEMP AND WIND DATA

MONTH: MARCH YEAR: 1976. COL CB TRACT SFC TO 500 METERS

NORMALIZED FREQUENCY DISTRIBUTION

DIRECTION	SPEED (METER/SEC) 0-3	4-6	7-10	11-16	17-21	GREATER THAN 21	AVERAGE SPEED	TOTAL
N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ENE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
W	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AVG SPEED	0.0	0.0	0.0	0.0	0.0	0.0		0.0
TOTAL	0.0	0.0	0.0	0.0	0.0	0.0		0.0

RELATIVE FREQUENCY OF OCCURRENCE OF THE F STABILITY CLASS IS 0.0

RELATIVE FREQUENCY OF CALM 0.0

A TOTAL OF 3 SOUNDINGS FROM A SAMPLE OF 27 SOUNDINGS DID NOT HAVE 500 M OF TEMP AND WIND DATA

MONTH: MARCH YEAR: 1976. COL CB TRACT SFC TO 500 METERS

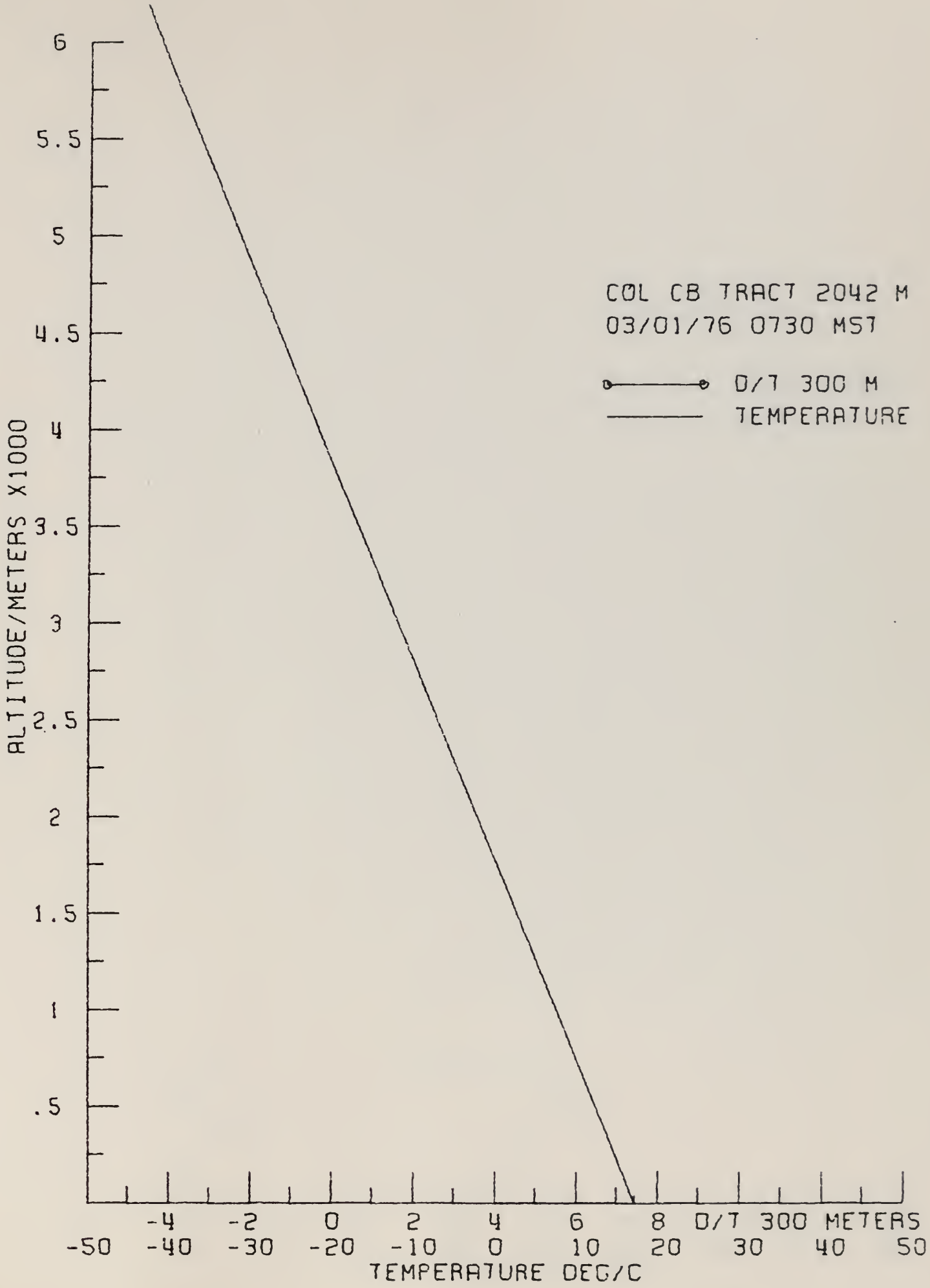
NORMALIZED FREQUENCY DISTRIBUTION

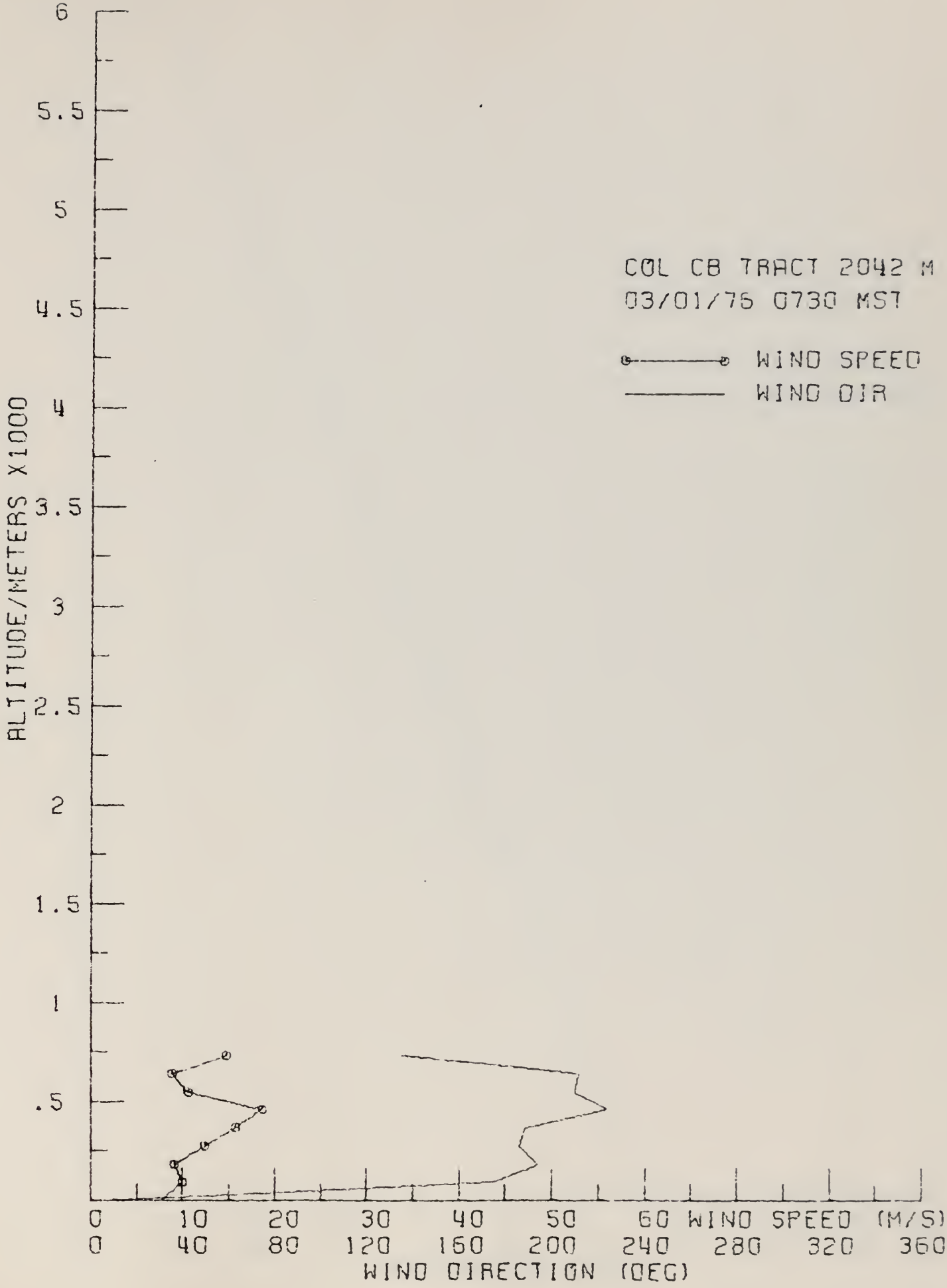
DIRECTION	SPEED (METER/SEC) 0-3	4-6	7-10	11-16	17-21	GREATER THAN 21	AVERAGE SPEED	TOTAL
N	0.0	0.04	0.0	0.0	0.0	0.0	4.6	0.04
NNE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ENE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSE	0.04	0.0	0.04	0.04	0.0	0.0	7.7	0.13
S	0.0	0.04	0.0	0.04	0.0	0.0	7.1	0.08
SSW	0.08	0.08	0.13	0.04	0.0	0.0	5.7	0.33
SW	0.0	0.08	0.0	0.0	0.0	0.0	4.5	0.08
WSW	0.0	0.0	0.04	0.0	0.0	0.0	6.9	0.04
W	0.0	0.0	0.0	0.04	0.0	0.0	15.9	0.04
WNW	0.0	0.04	0.04	0.0	0.0	0.0	7.0	0.08
NW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNW	0.04	0.08	0.04	0.0	0.0	0.0	4.4	0.17
AVG SPEED	2.0	4.2	7.5	13.2	0.0	0.0		0.0
TOTAL	0.17	0.38	0.29	0.17	0.0	0.0		1.00

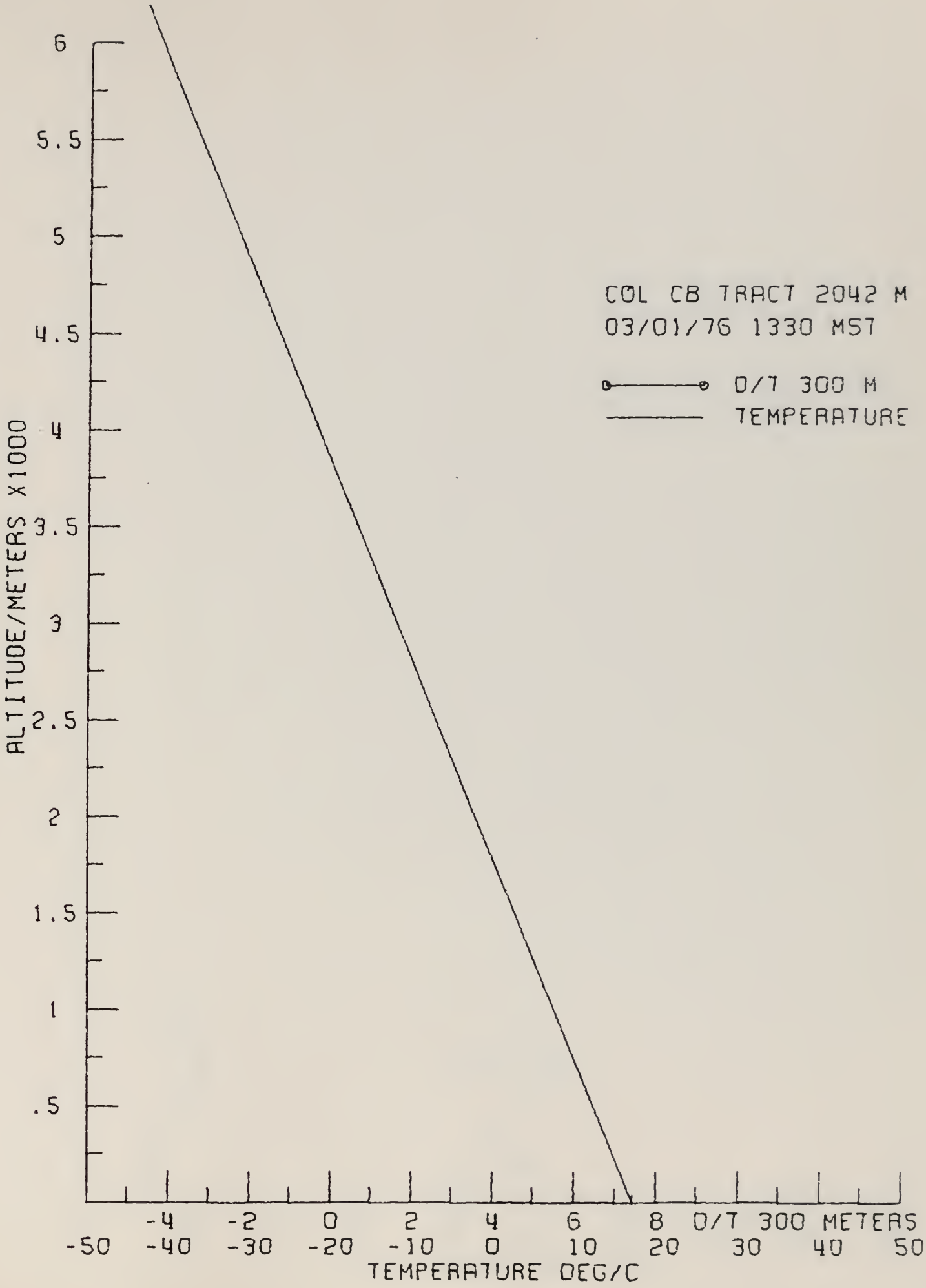
NORMALIZED FREQUENCY DISTRIBUTION INDEPENDENT OF STABILITY

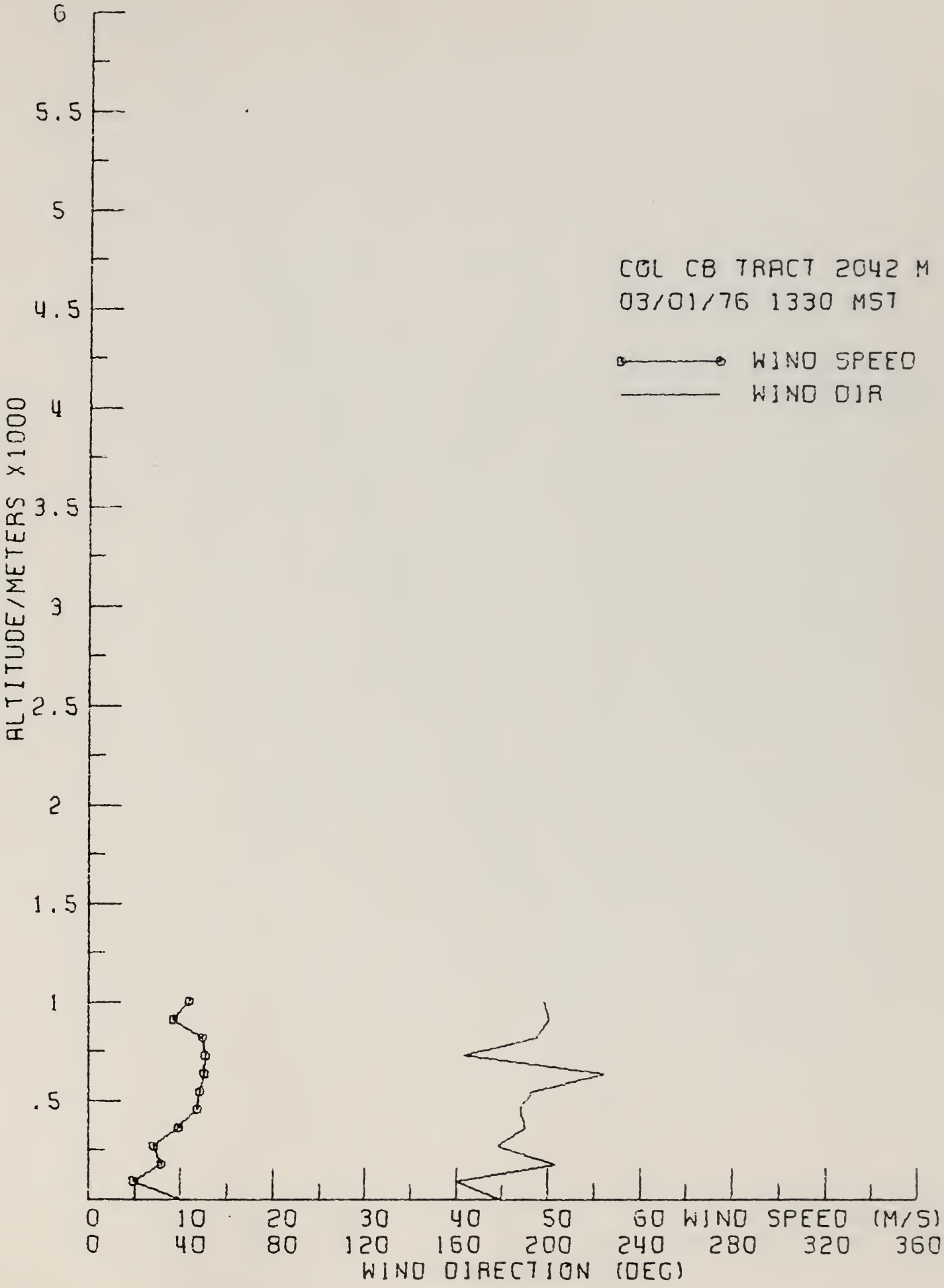
RELATIVE FREQUENCY OF CALM 0.0

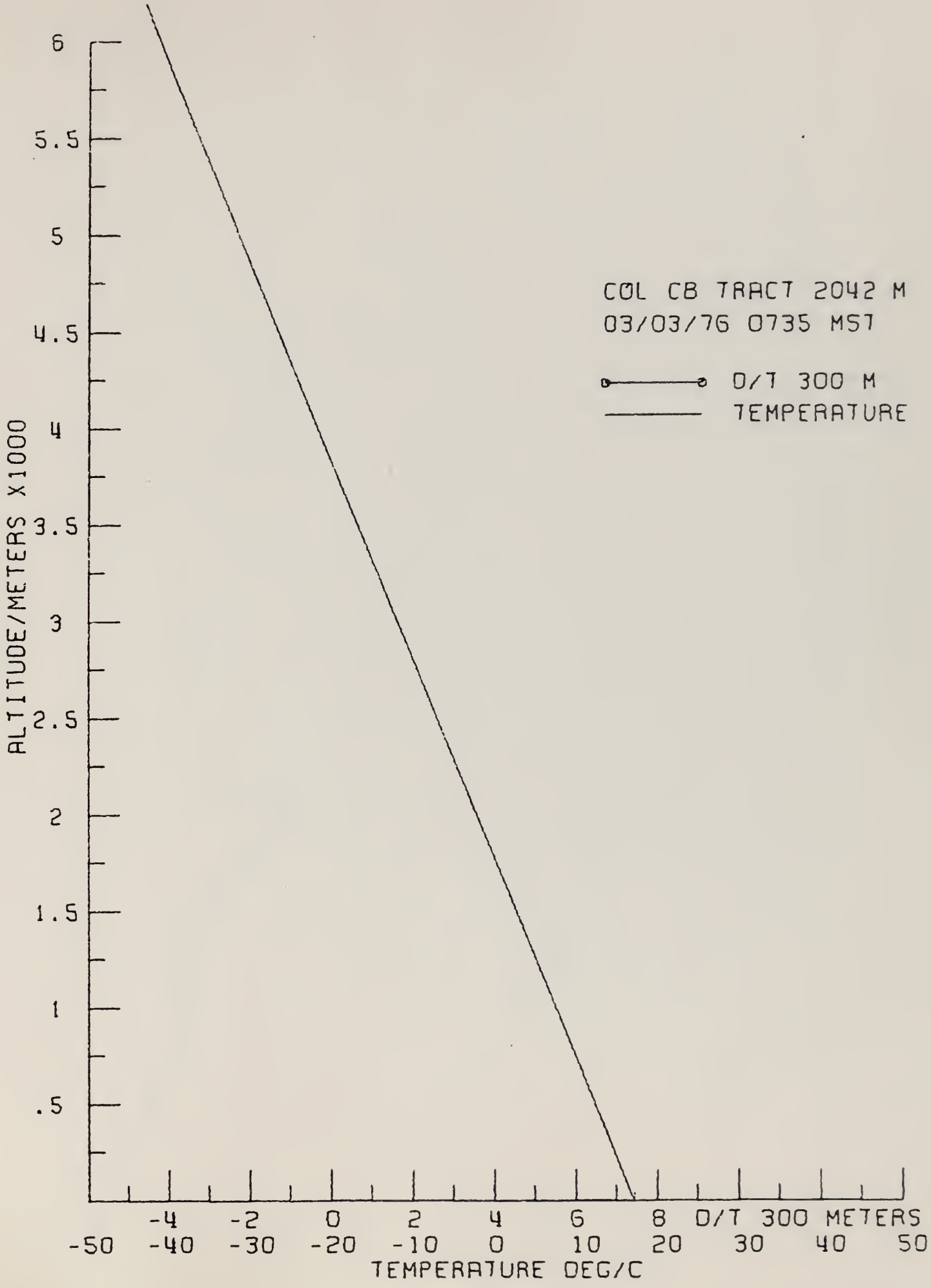
A TOTAL OF 3 SOUNDINGS FROM A SAMPLE OF 27 SOUNDINGS DID NOT HAVE 500 M OF TEMP AND WIND DATA


COL CB TRACT 2042 M
03/01/76 0730 MST
D/T 300 M
TEMPERATURE
ALTITUDE/METERS X1000
6
5.5
5
4.5
4
3.5
3
2.5
2
1.5
1
.5
-4
-2
0
2
4
6
8
D/T 300 METERS
-50
-40
-30
-20
-10
0
10
20
30
40
50
TEMPERATURE DEG/C


COL CB TRACT 2042 M
03/01/76 0730 MST
WIND SPEED
WIND DIR
ALTITUDE/METERS X1000
6
5.5
5
4.5
4
3.5
3
2.5
2
1.5
1
.5
0 10 20 30 40 50 60 WIND SPEED (M/S)
0 40 80 120 160 200 240 280 320 360
WIND DIRECTION (DEG)


COL CB TRACT 2042 M
03/01/76 1330 MST
O/T 300 M
TEMPERATURE
ALTITUDE/METERS X1000
6
5.5
5
4.5
4
3.5
3
2.5
2
1.5
1
.5
-4
-2
0
2
4
6
8
O/T 300 METERS
-50
-40
-30
-20
-10
0
10
20
30
40
50
TEMPERATURE DEG/C


COL CB TRACT 2042 M
03/01/76 1330 MST
WIND SPEED
WIND DIR
ALTITUDE/METERS X1000
6
5.5
5
4.5
4
3.5
3
2.5
2
1.5
1
.5
0 10 20 30 40 50 60 WIND SPEED (M/S)
0 40 80 120 160 200 240 280 320 360
WIND DIRECTION (DEG)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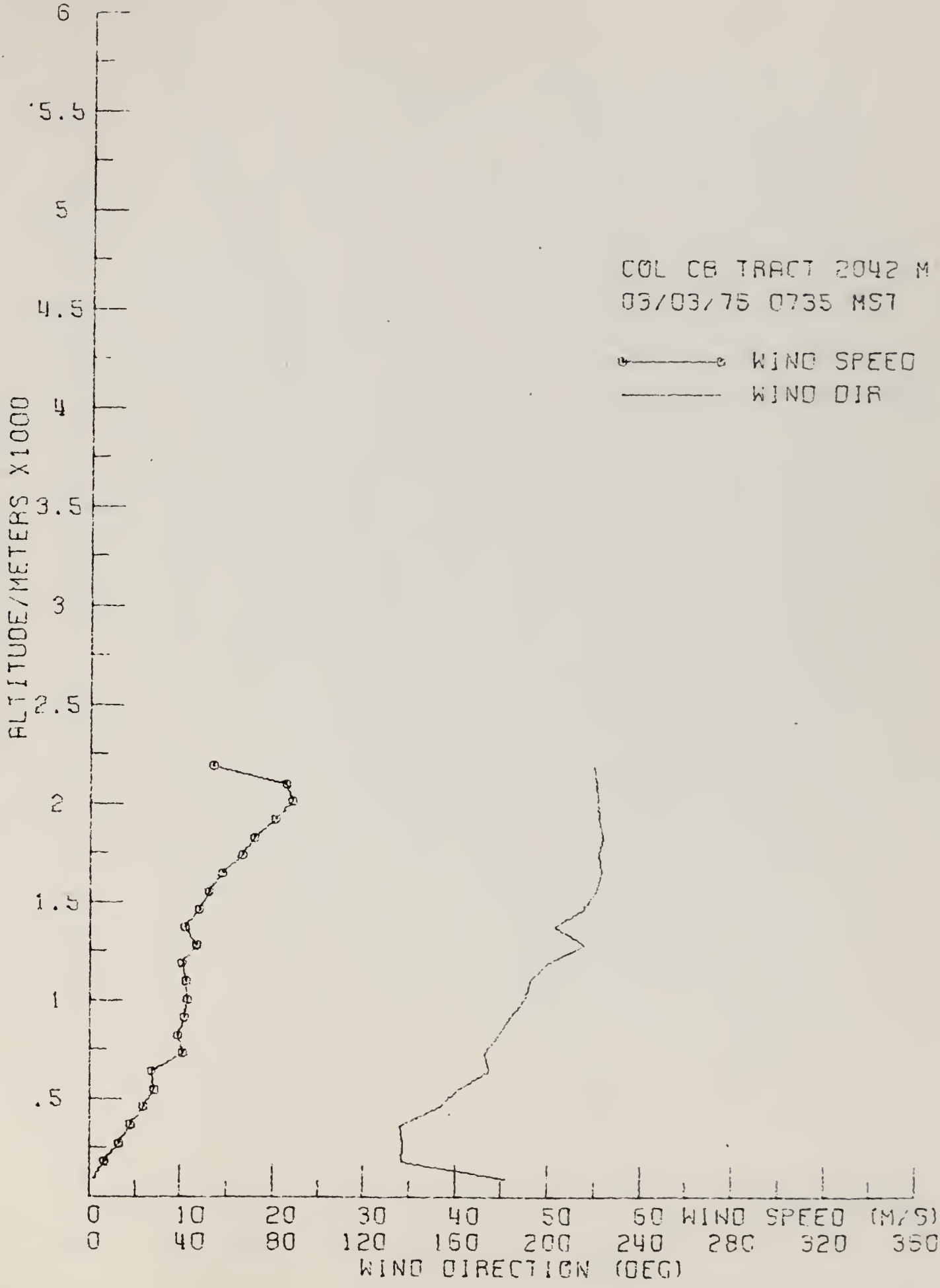
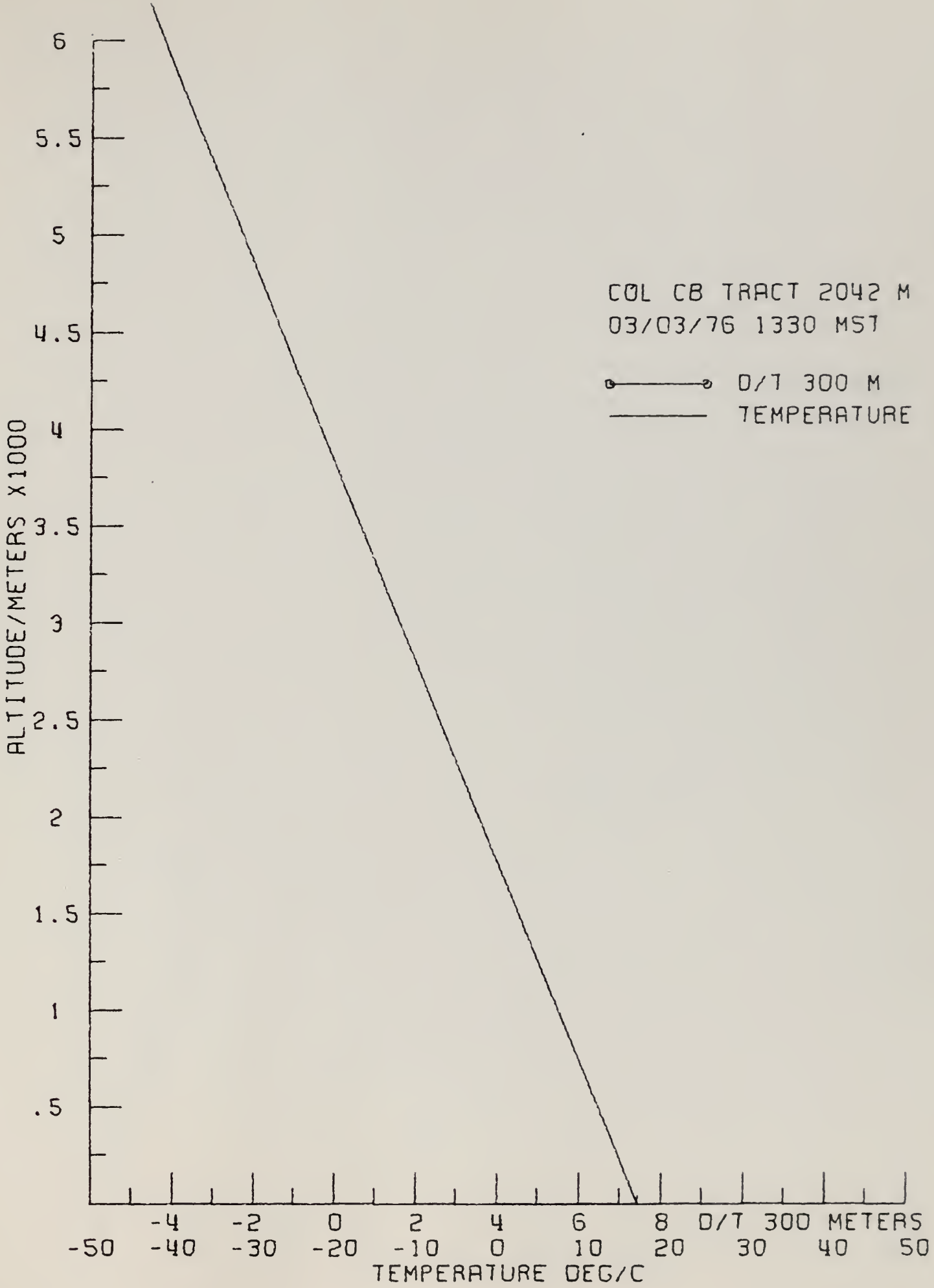
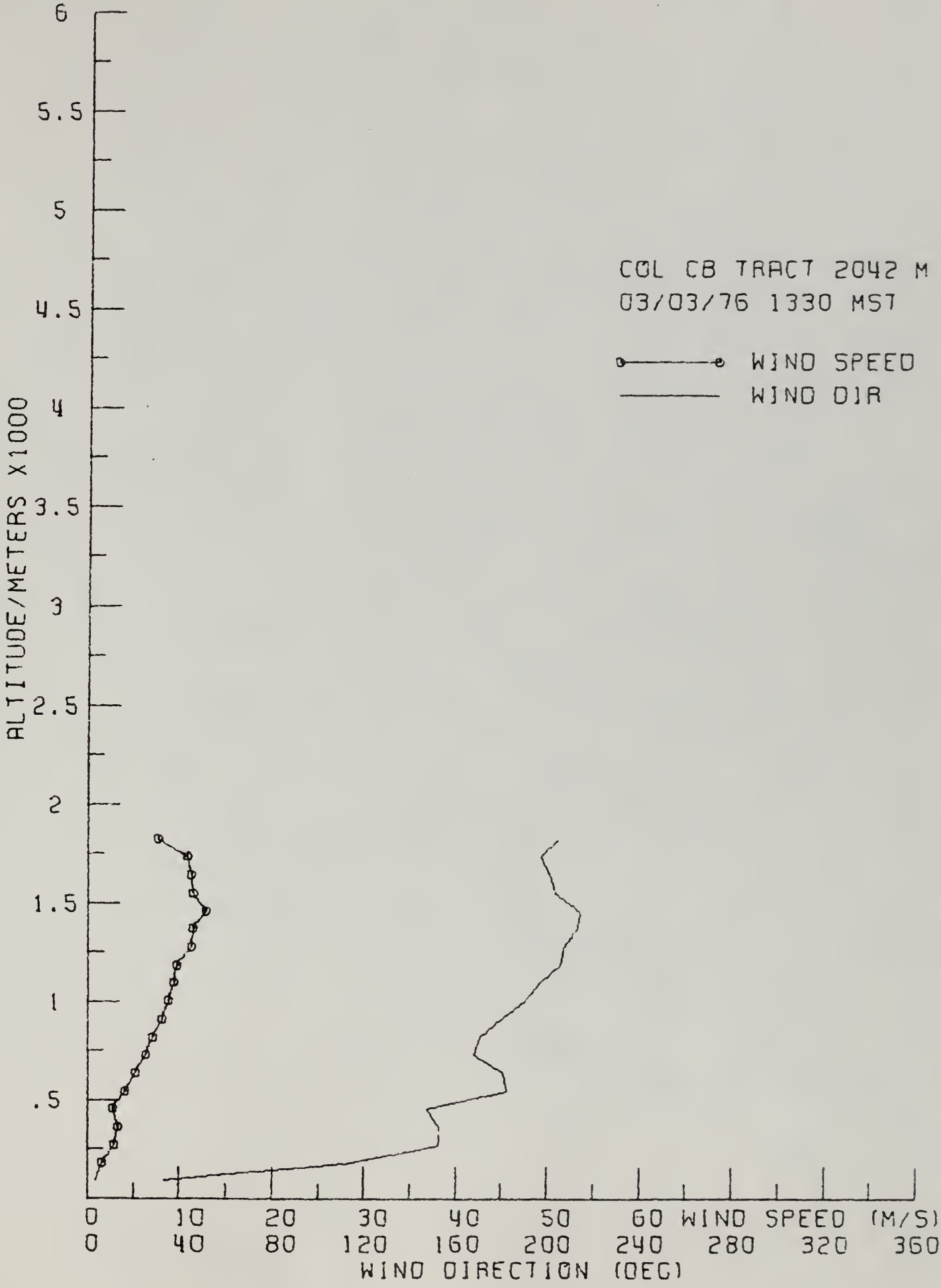
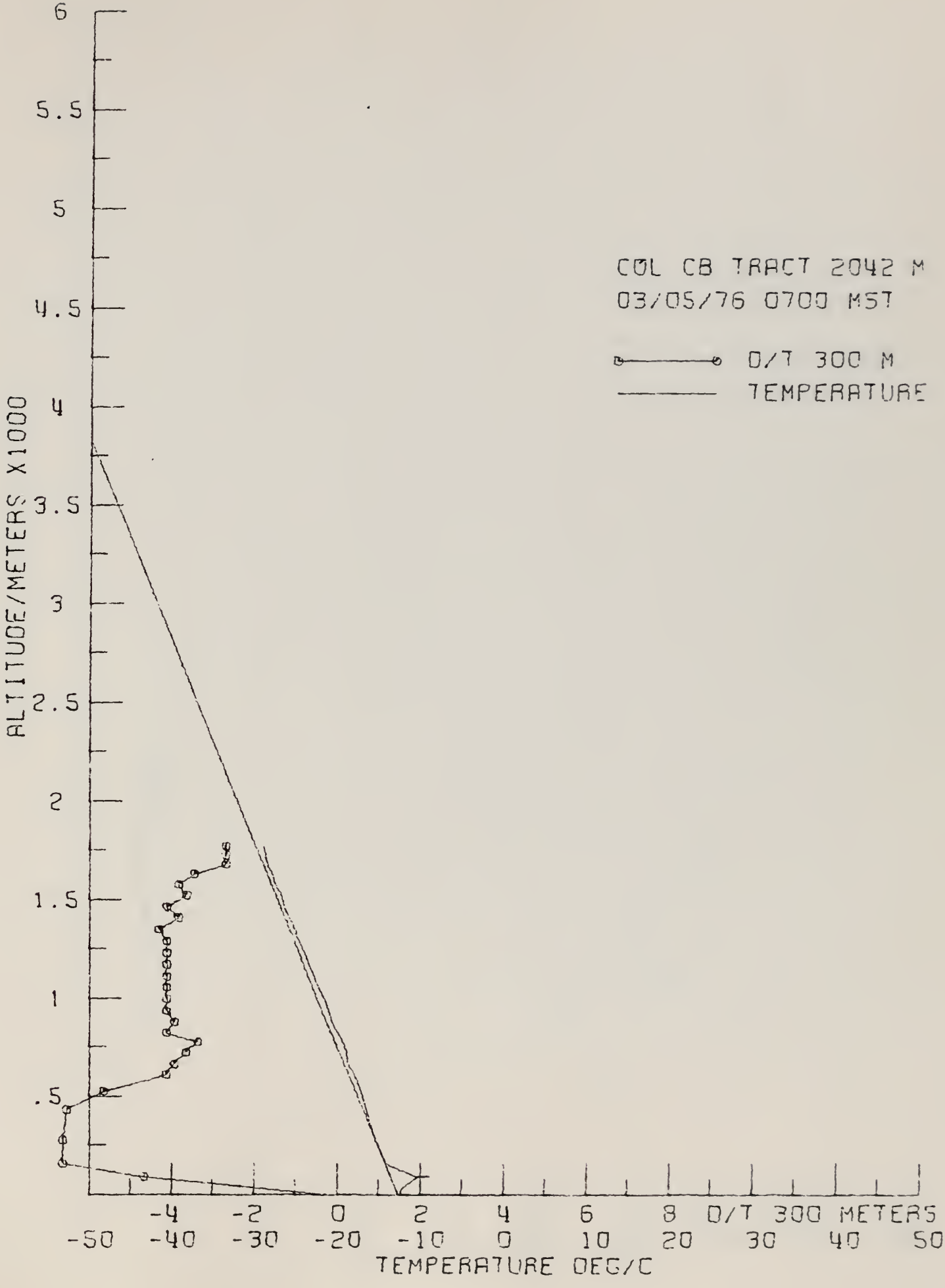
03/03/76 0735 MST
D/T 300 M
TEMPERATURE
ALTITUDE/METERS X1000
6
5.5
5
4.5
4
3.5
3
2.5
2
1.5
1
.5
-4
-2
0
2
4
6
8
D/T 300 METERS
-50
-40
-30
-20
-10
0
10
20
30
40
50
TEMPERATURE DEG/C


COL CB TRACT 2042 M
03/03/75 0735 MST
WIND SPEED
WIND DIR
ALTITUDE/METERS X1000
6
5.5
5
4.5
4
3.5
3
2.5
2
1.5
1
.5
0 10 20 30 40 50 60 WIND SPEED (M/S)
0 40 80 120 160 200 240 280 320 360
WIND DIRECTION (DEG)


COL CB TRACT 2042 M
03/03/76 1330 MST
D/T 300 M
TEMPERATURE
ALTITUDE/METERS X1000
6
5.5
5
4.5
4
3.5
3
2.5
2
1.5
1
.5
-4
-2
0
2
4
6
8
D/T 300 METERS
-50
-40
-30
-20
-10
0
10
20
30
40
50
TEMPERATURE DEG/C


COL CB TRACT 2042 M
03/03/76 1330 MST
WIND SPEED
WIND DIR
ALTITUDE/METERS X1000
6
5.5
5
4.5
4
3.5
3
2.5
2
1.5
1
.5
0 10 20 30 40 50 60 WIND SPEED (M/S)
0 40 80 120 160 200 240 280 320 360
WIND DIRECTION (DEG)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03/05/76 0700 MST
D/T 300 M
TEMPERATURE
ALTITUDE/METERS X1000
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2.5
2
1.5
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-4
-2
0
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4
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D/T 300 METERS
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-30
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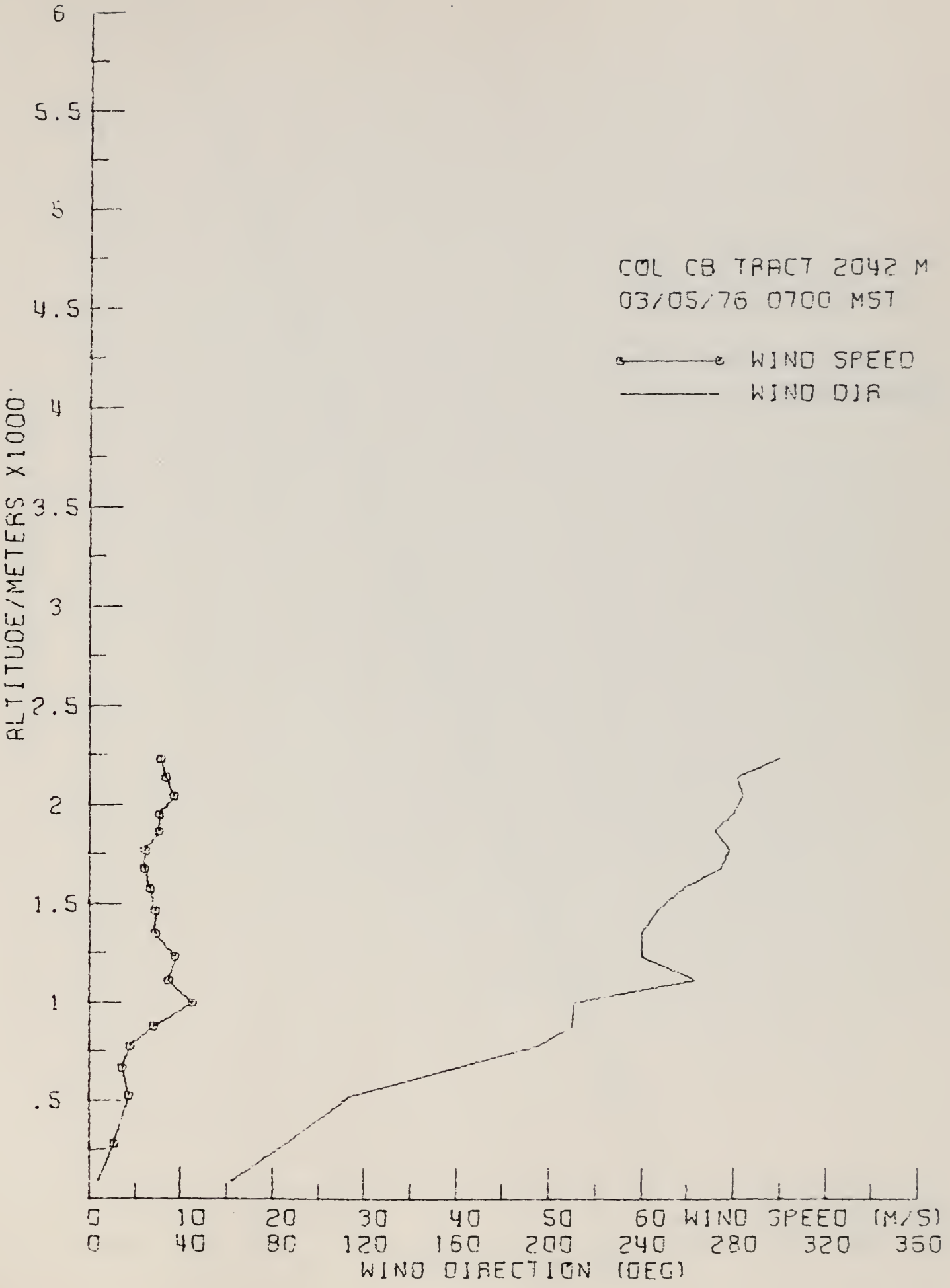
TEMPERATURE DEG/C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WIND SPEED
WIND DIR
ALTITUDE/METERS X1000
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4.5
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3.5
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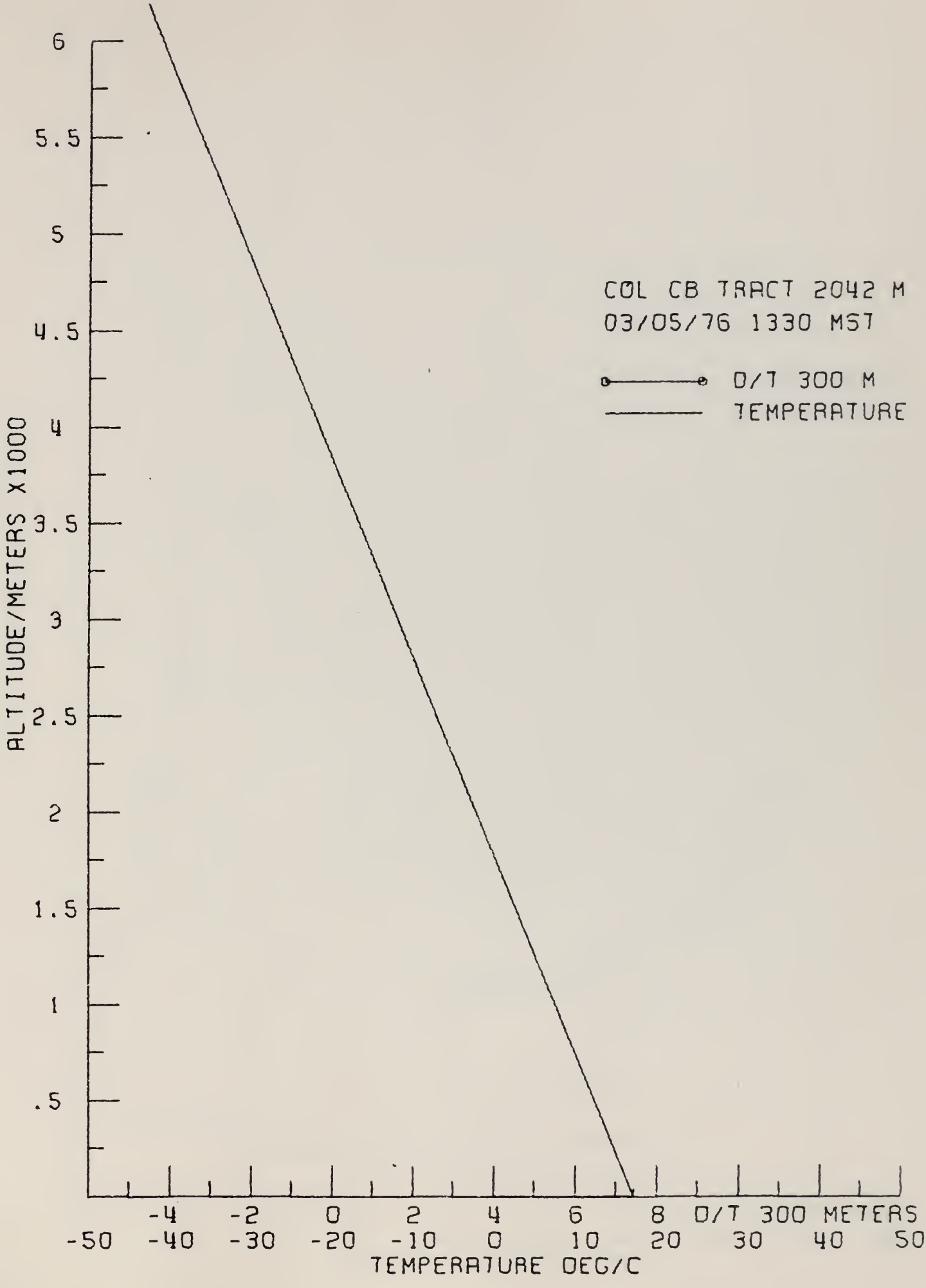
0 10 20 30 40 50 60 WIND SPEED (M/S)
0 40 80 120 160 200 240 280 320 360
WIND DIRECTION (DEG)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D/T 300 M
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ALTITUDE/METERS X1000
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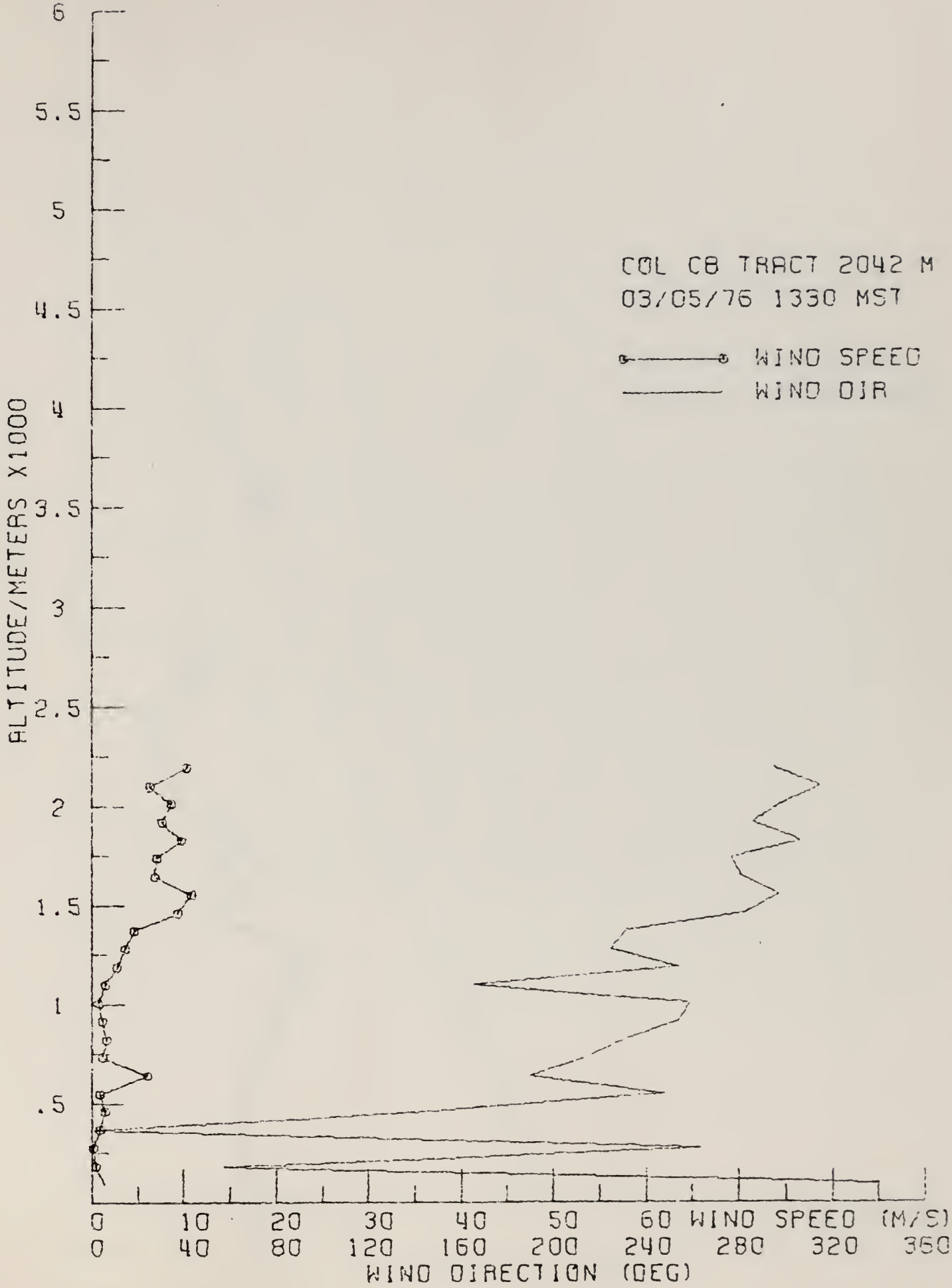
TEMPERATURE DEG/C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WIND SPEED
WIND DIR
ALTITUDE/METERS X1000
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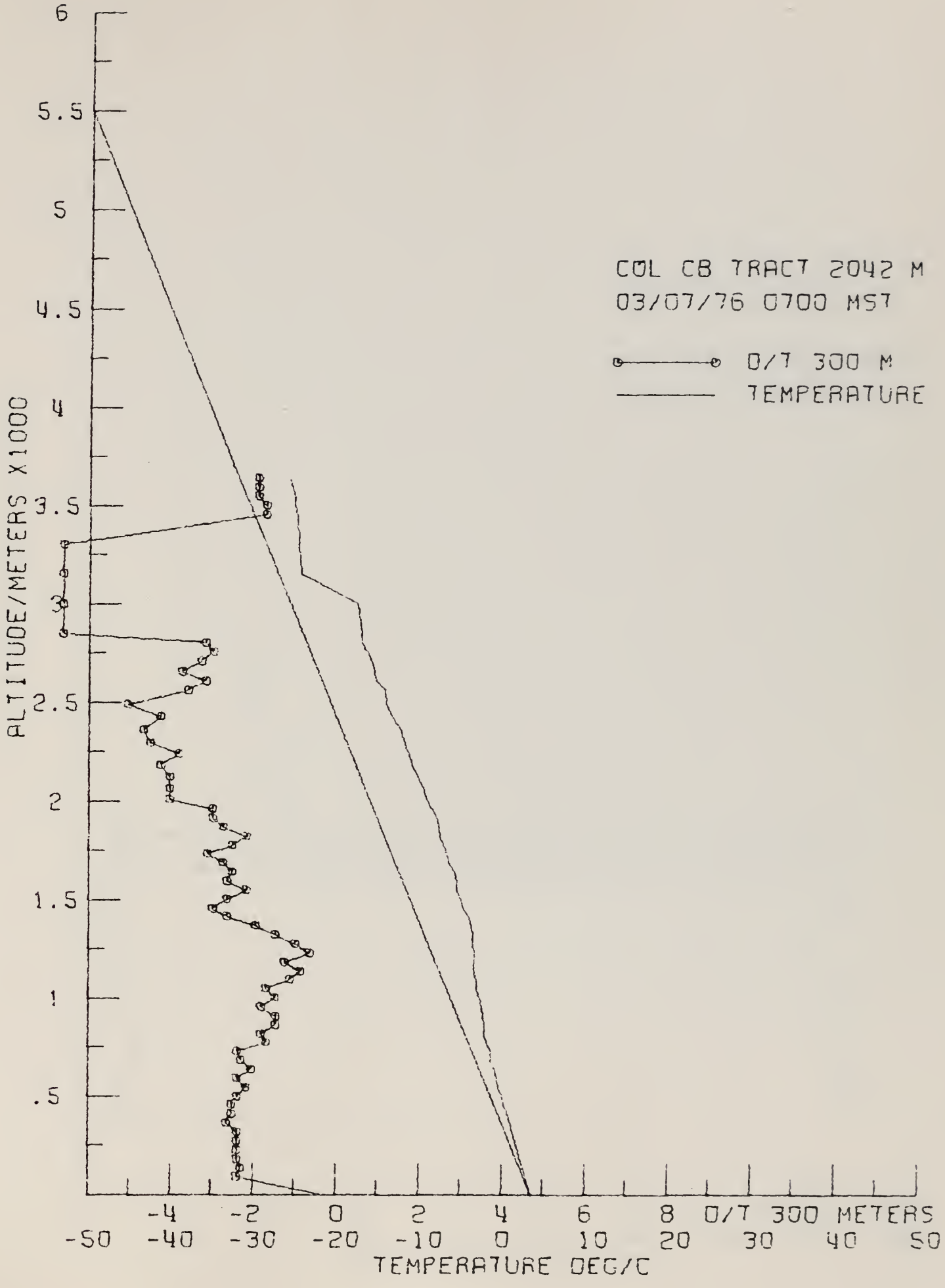
0 40 80 120 160 200 240 280 320 360
WIND DIRECTION (DEG)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03/07/76 0700 MST
D/T 300 M
TEMPERATURE
ALTITUDE/METERS X1000
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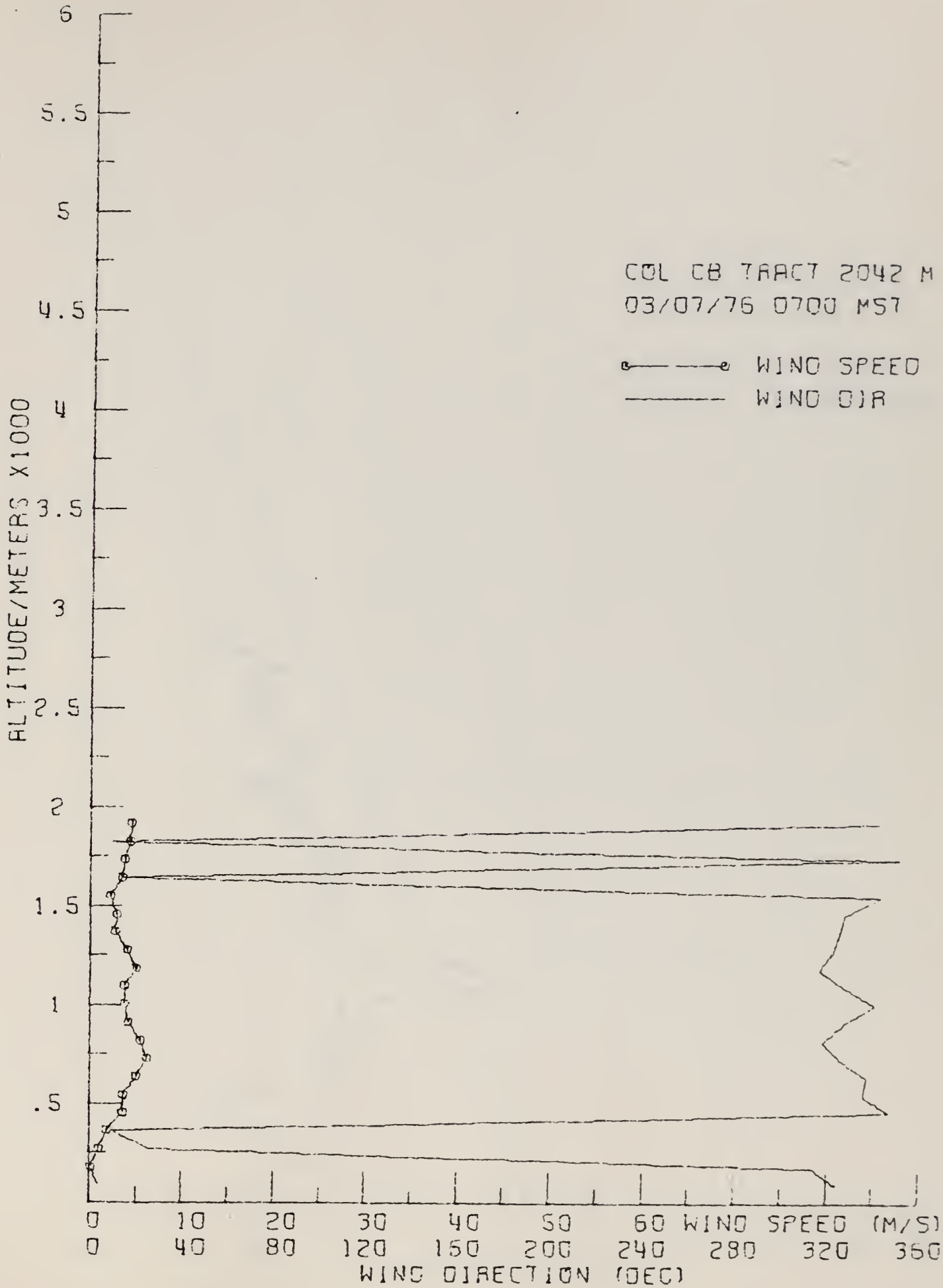
TEMPERATURE DEG/C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03/07/76 0700 MST
WIND SPEED
WIND DIR
ALTITUDE/METERS X1000
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0 10 20 30 40 50 60 WIND SPEED (M/S)
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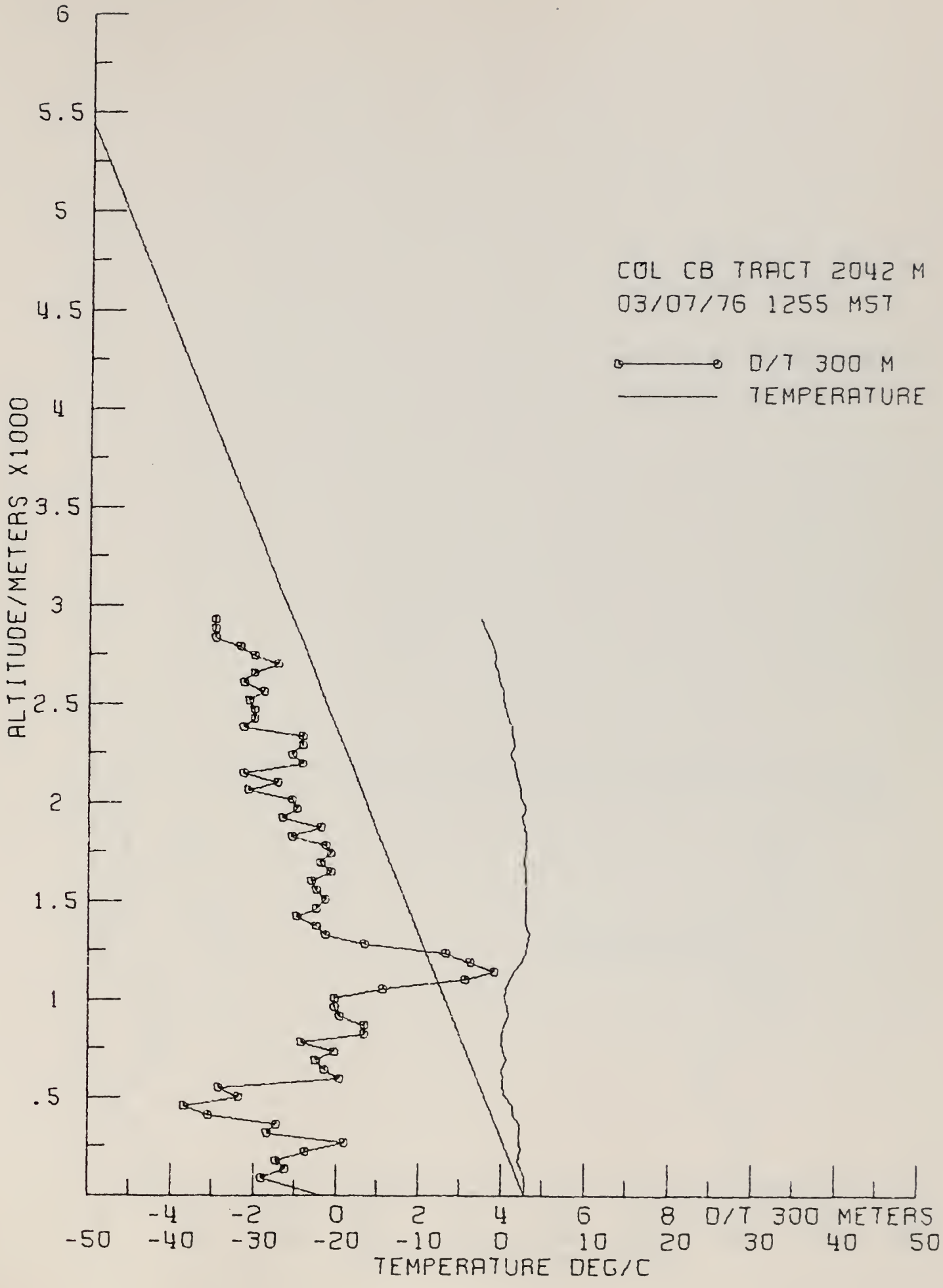
WIND DIRECTION (DEG)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ALTITUDE/METERS X1000
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-4
-2
0
2
4
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D/T 300 METERS
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-10
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30
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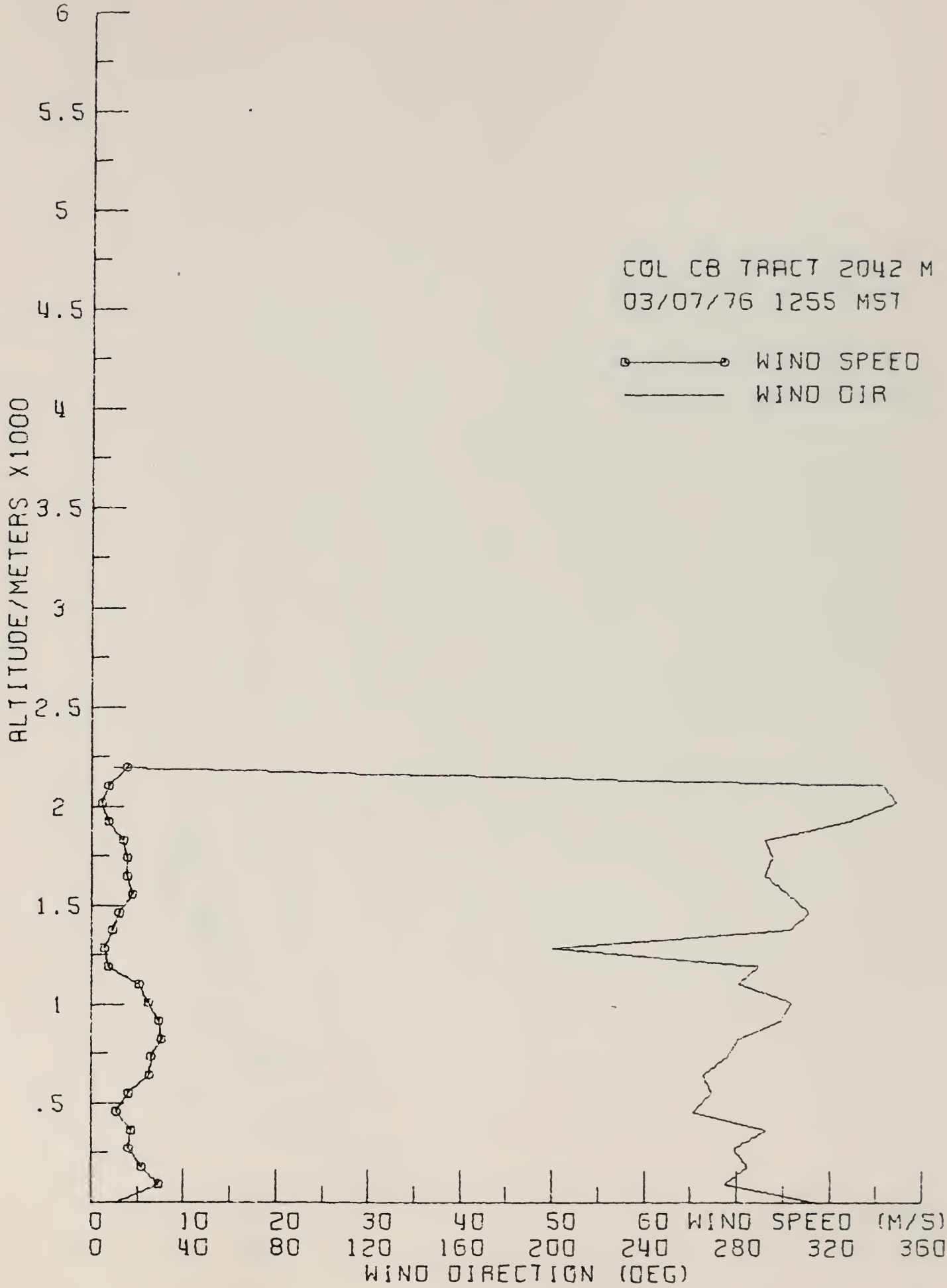
50
TEMPERATURE DEG/C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03/07/76 1255 MST
WIND SPEED
WIND DIR
ALTITUDE/METERS X1000
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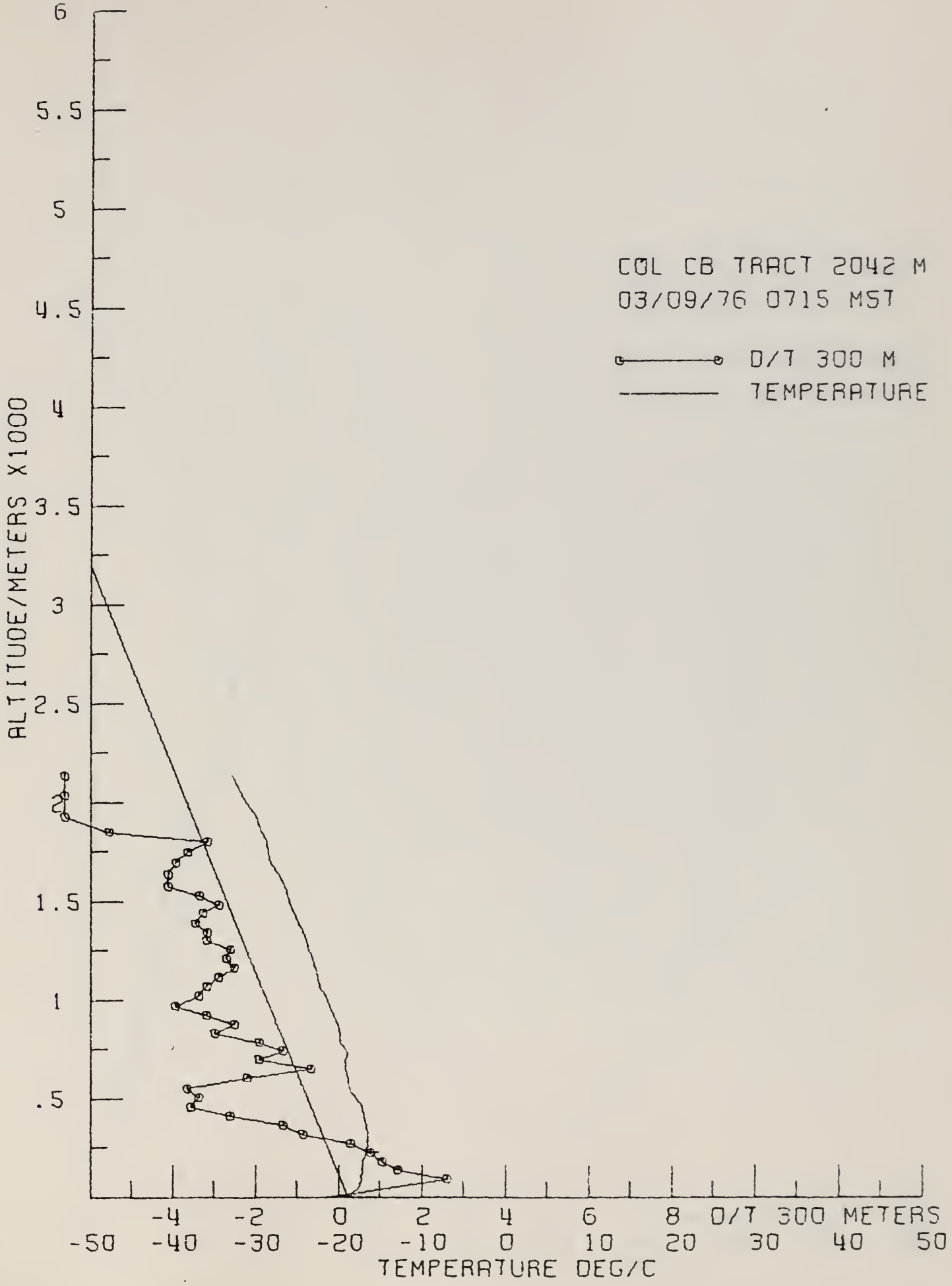
0 10 20 30 40 50 60 WIND SPEED (M/S)
0 40 80 120 160 200 240 280 320 360
WIND DIRECTION (DEG)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D/T 300 M
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ALTITUDE/METERS X1000
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3.5
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2.5
2
1.5
1
.5
-4
-2
0
2
4
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D/T 300 METERS
-50
-40
-30
-20
-10
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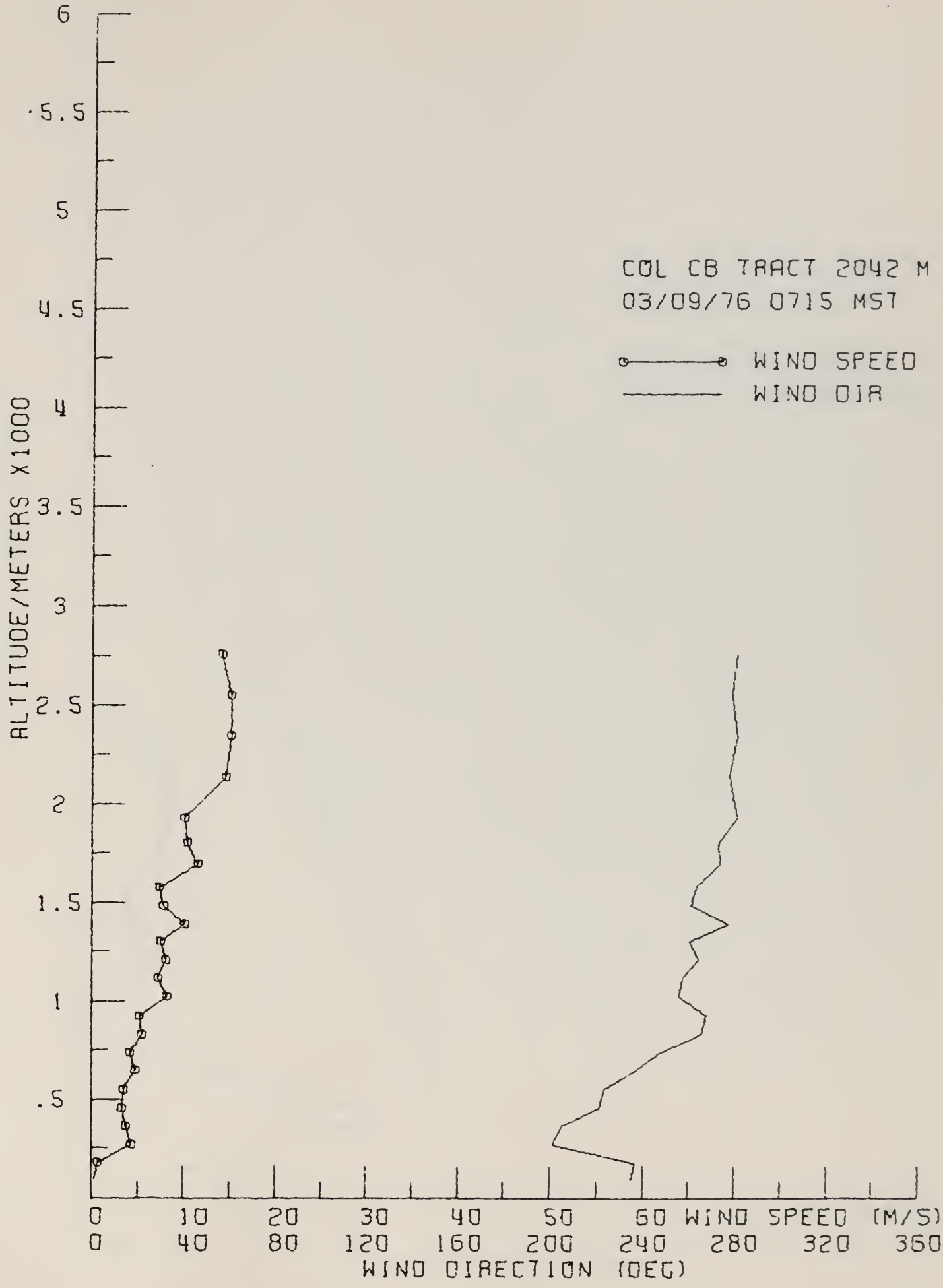
10
20
30
40
50
TEMPERATURE DEG/C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03/09/76 0715 MST
WIND SPEED
WIND DIR
ALTITUDE/METERS X1000
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4.5
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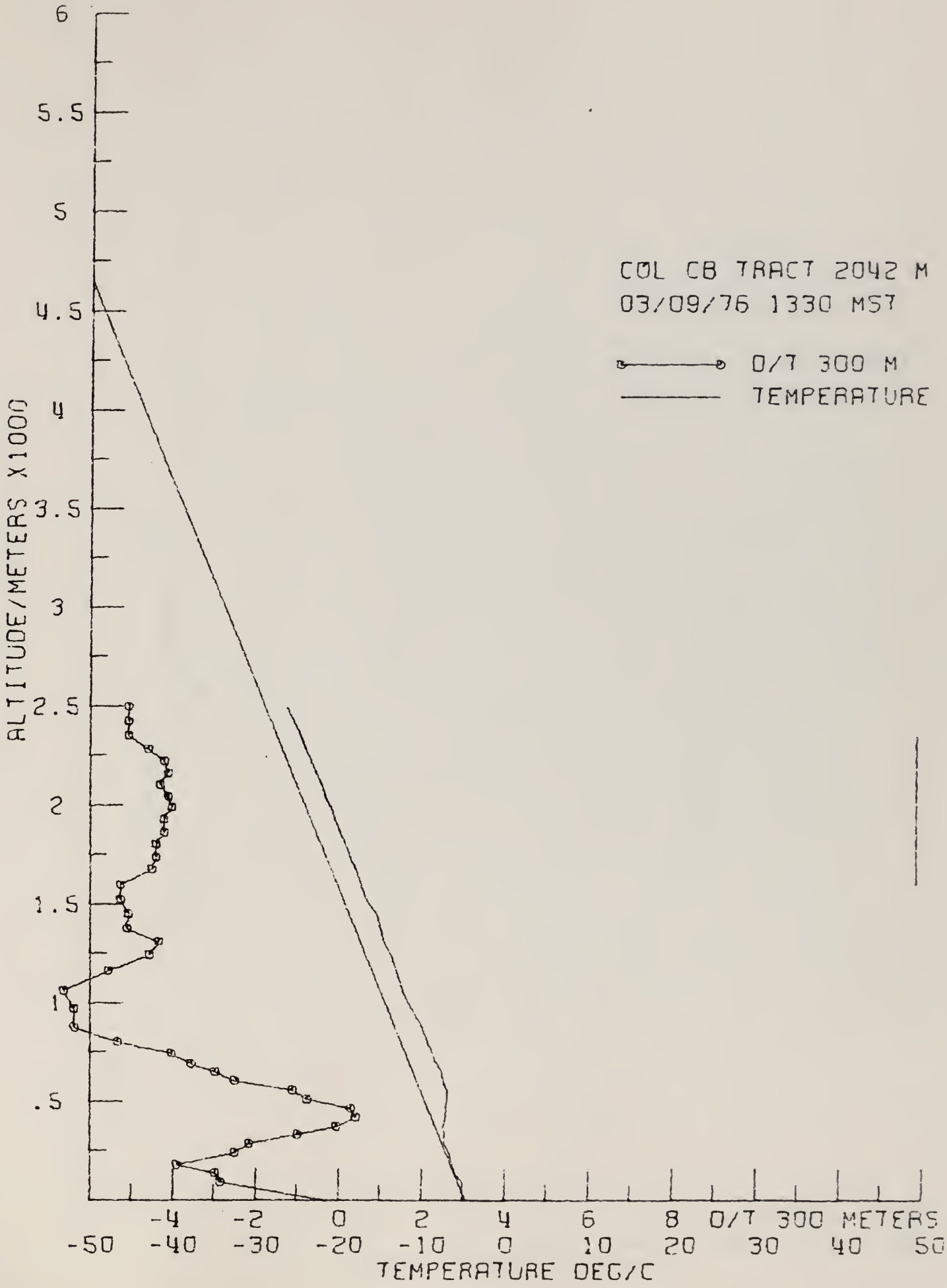
0 10 20 30 40 50 60 WIND SPEED (M/S)
0 40 80 120 160 200 240 280 320 360
WIND DIRECTION (DEG)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03/09/76 1330 MST
O/T 300 M
TEMPERATURE
ALTITUDE/METERS X1000
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5.5
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4.5
4
3.5
3
2.5
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1.5
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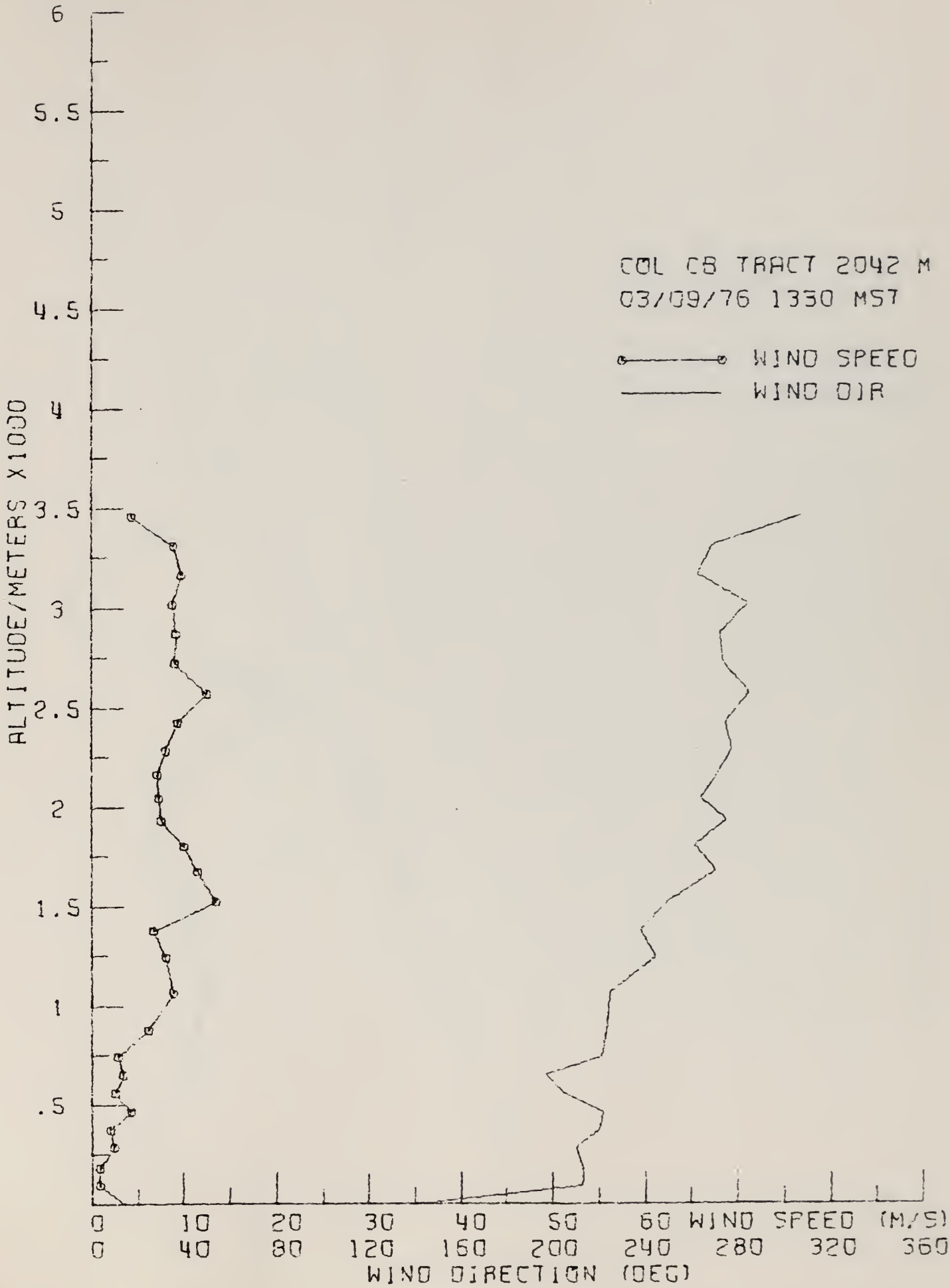
.5
-4 -2 0 2 4 6 8 O/T 300 METERS
-50 -40 -30 -20 -10 0 10 20 30 40 50
TEMPERATURE DEG/C


COL CB TRACT 2042 M
03/09/76 1330 MST
WIND SPEED
WIND DIR
ALTITUDE/METERS X1000
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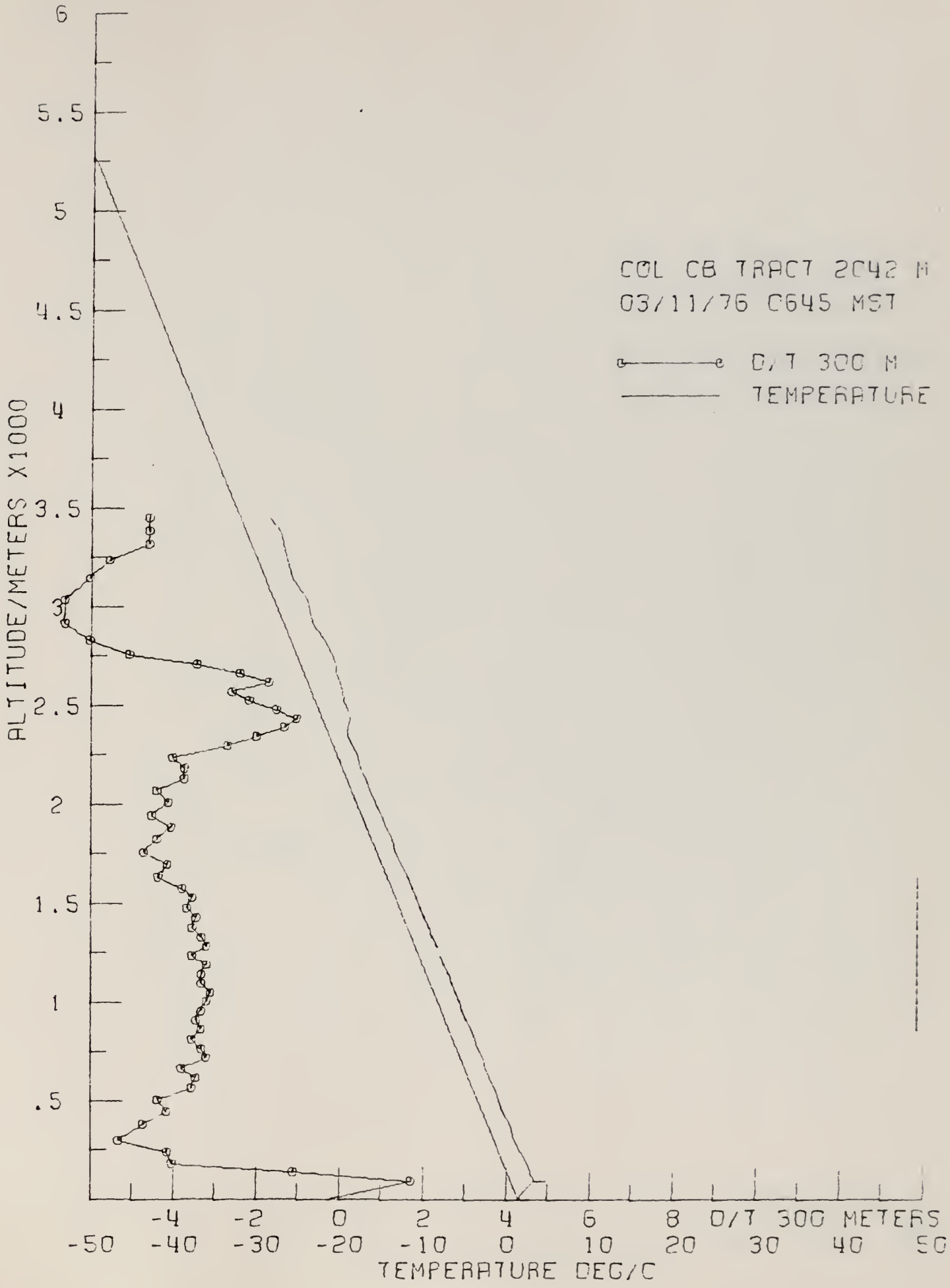
0 40 80 120 160 200 240 280 320 360
WIND DIRECTION (DEG)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03/11/76 0645 MST
D/T 300 M
TEMPERATURE
ALTITUDE/METERS X1000
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4
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D/T 300 METERS
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-20
-10
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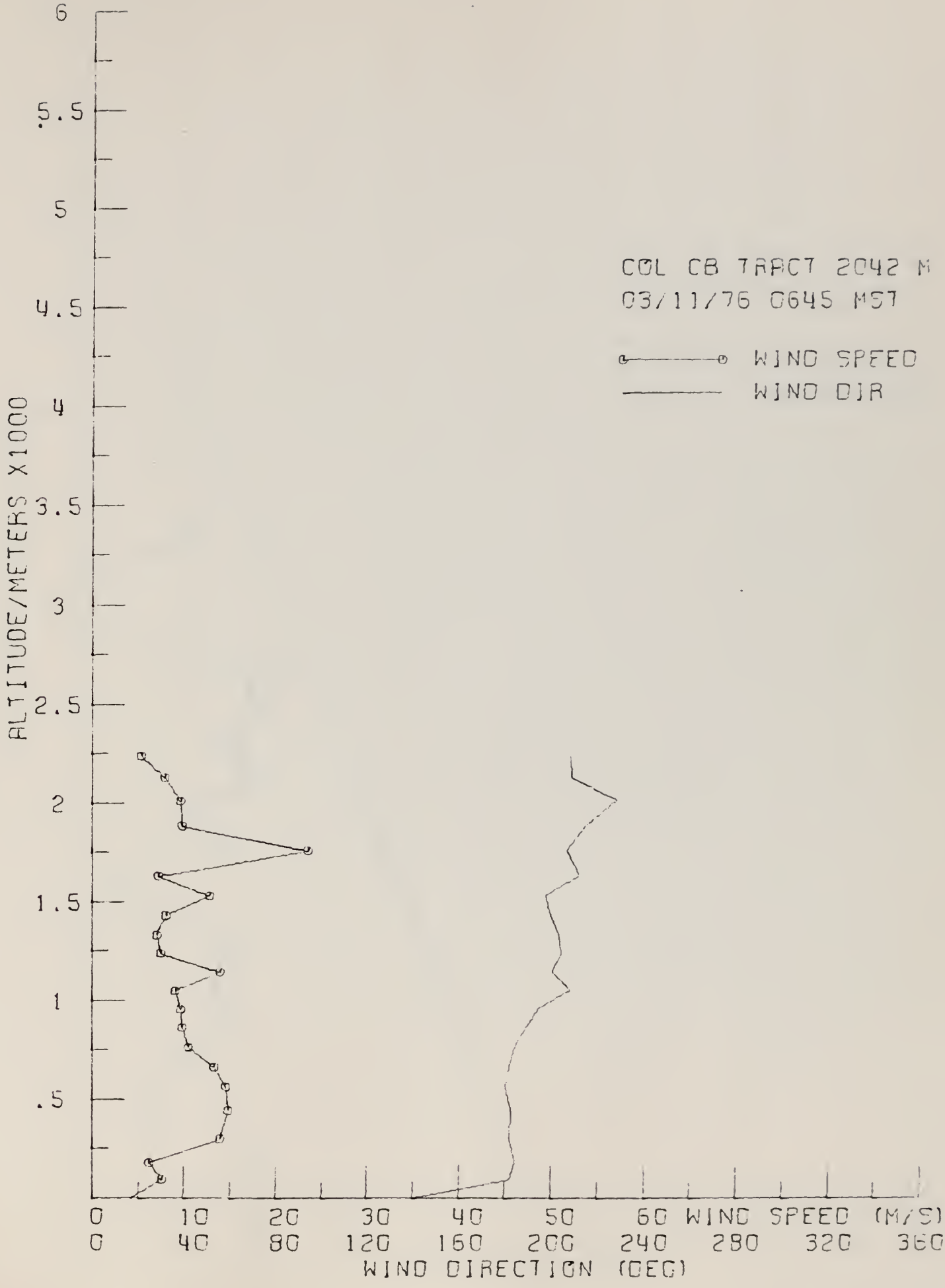
10
20
30
40
50
TEMPERATURE DEG/C


COL CB TRACT 2042 M
03/11/76 0645 MST
WIND SPEED
WIND DIR
ALTITUDE/METERS X1000
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4
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0 10 20 30 40 50 60 WIND SPEED (M/S)
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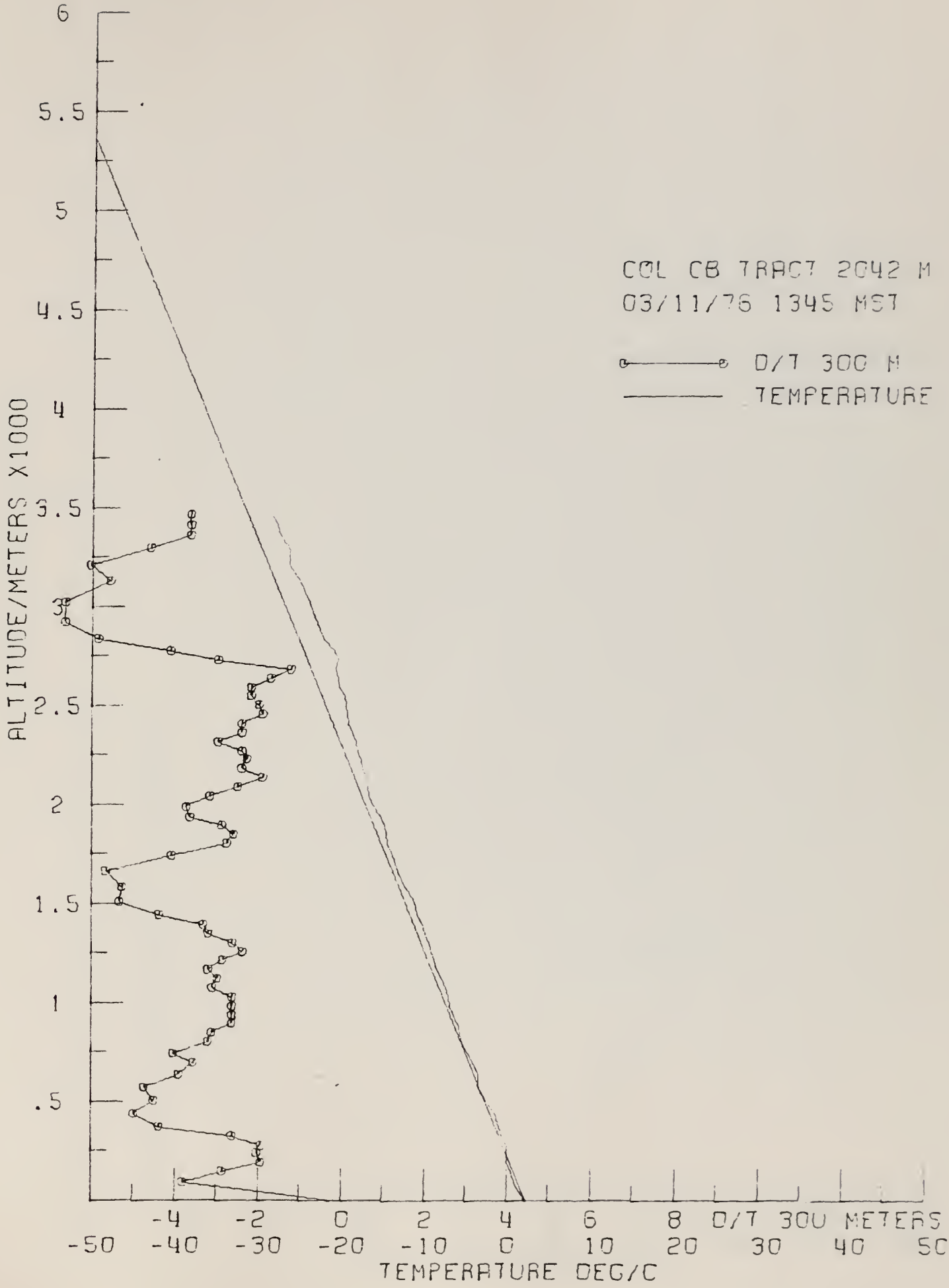
WIND DIRECTION (DEG)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O/T 300 M
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ALTITUDE/METERS X1000
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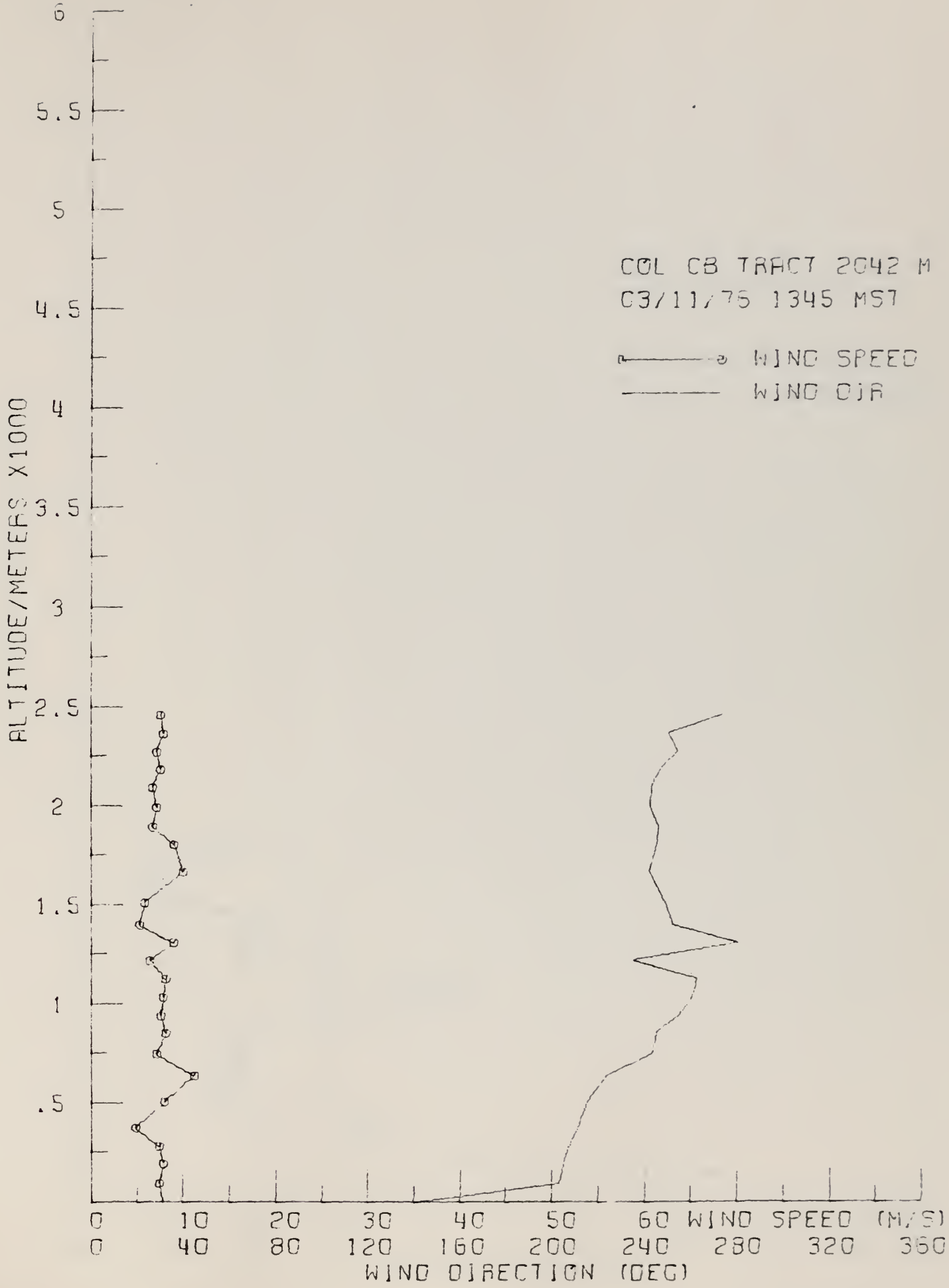
50
TEMPERATURE DEG/C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WIND SPEED
WIND DIR
ALTITUDE/METERS X1000
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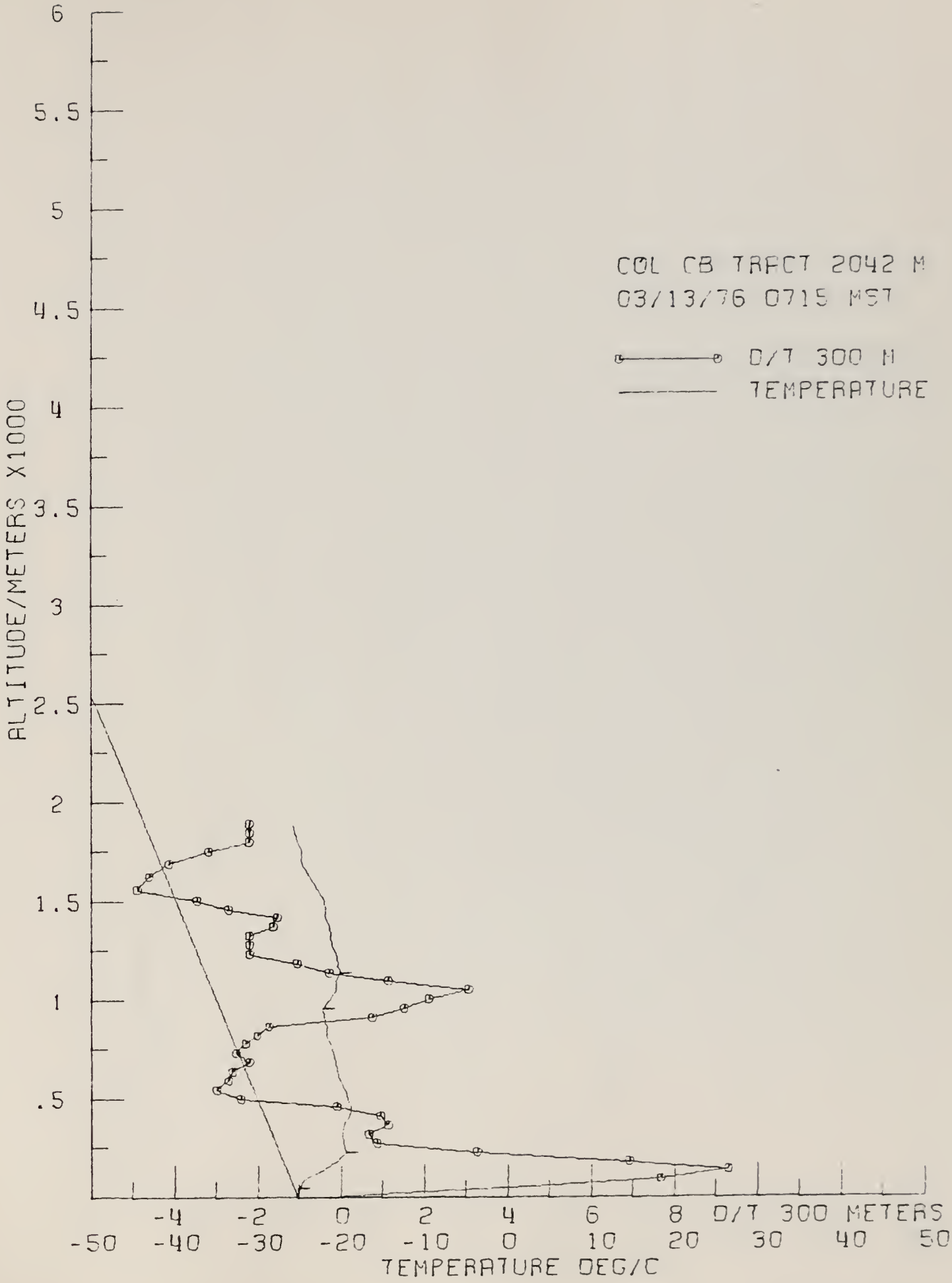
WIND DIRECTION (DEG)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03/13/76 0715 MST
D/T 300 M
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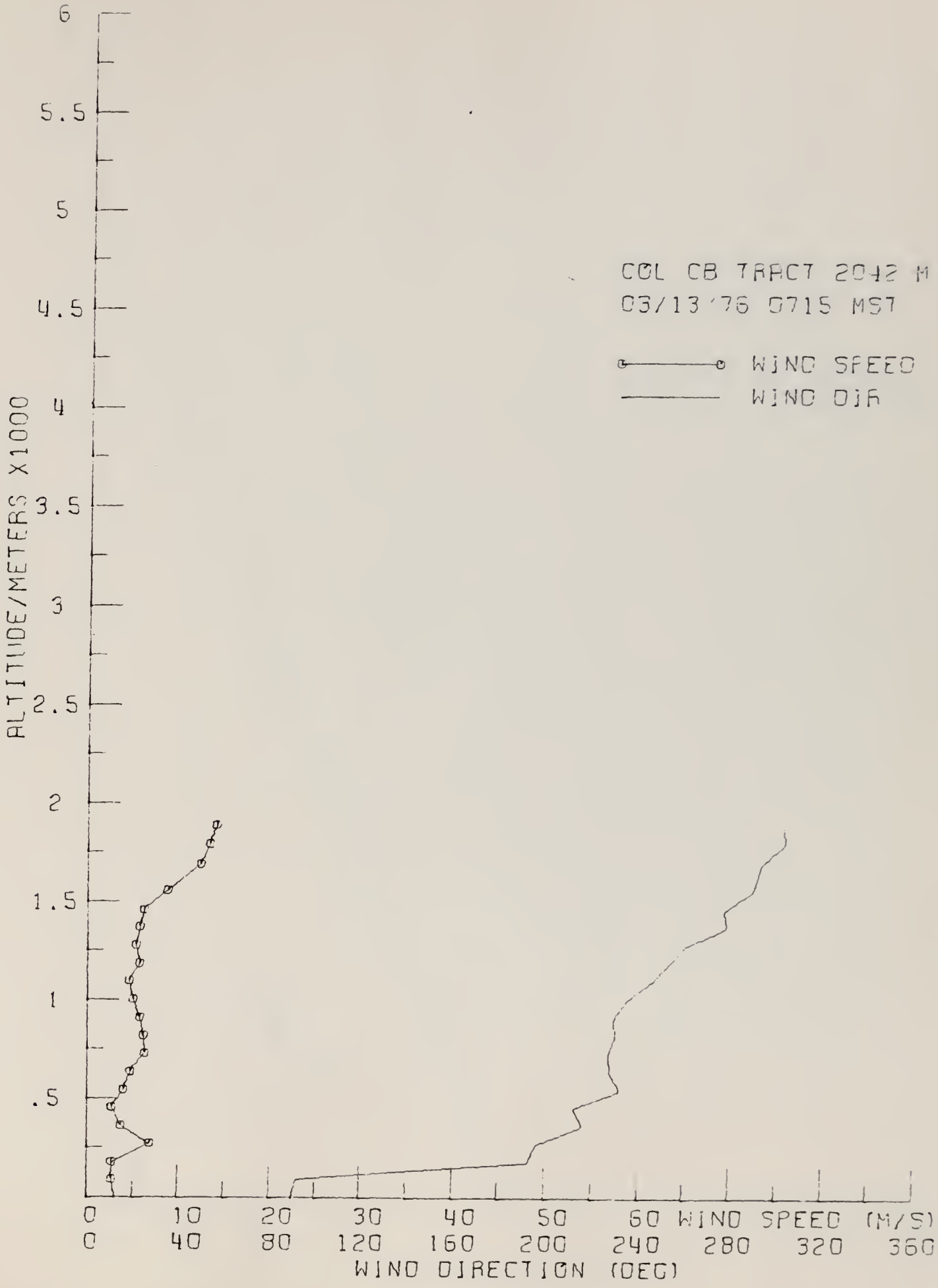
TEMPERATURE DEG/C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03/13/76 0715 MST
WIND SPEED
WIND DIR
ALTITUDE/METERS X1000
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4
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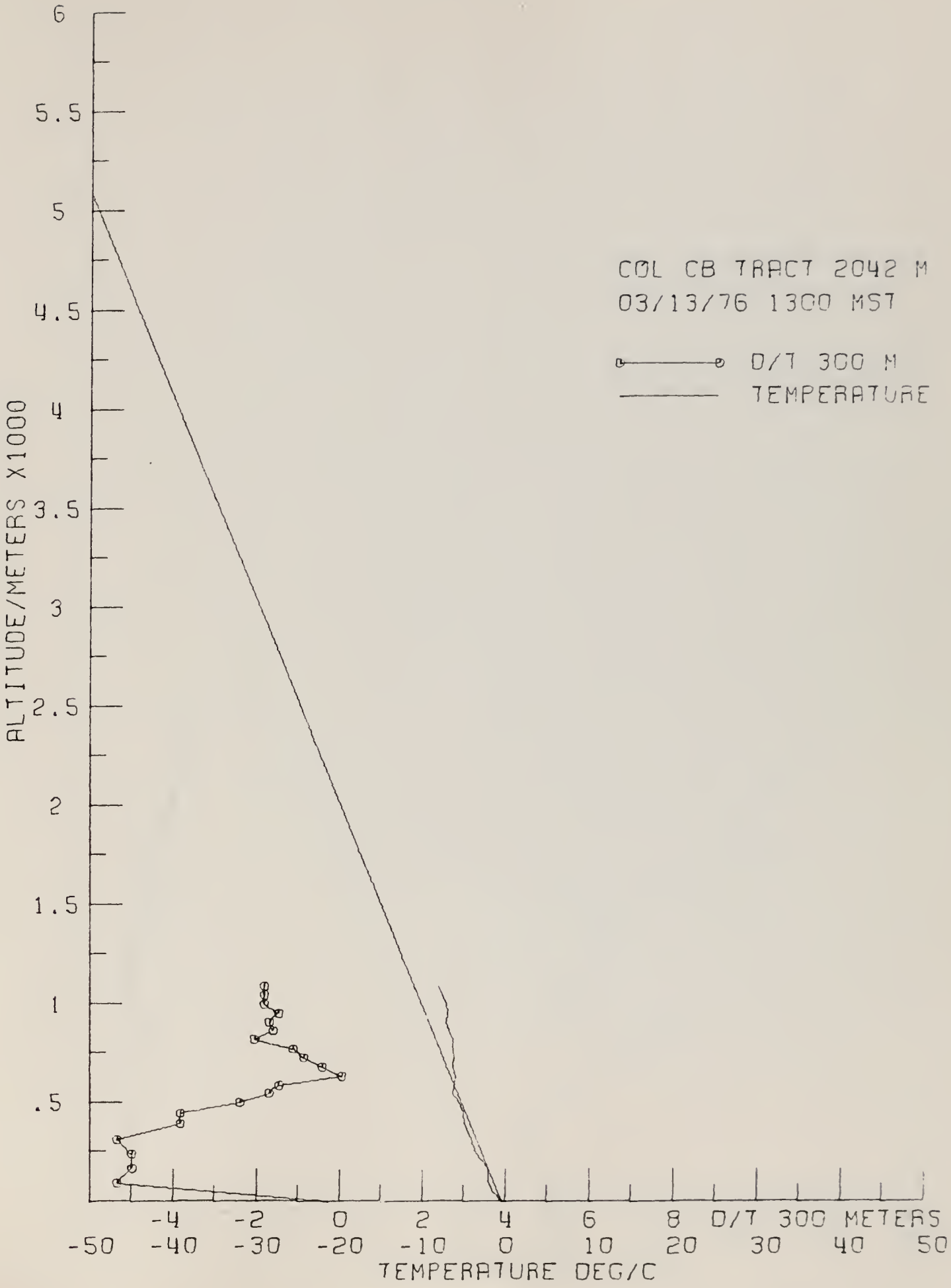
WIND DIRECTION (DEG)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D/T 300 METERS
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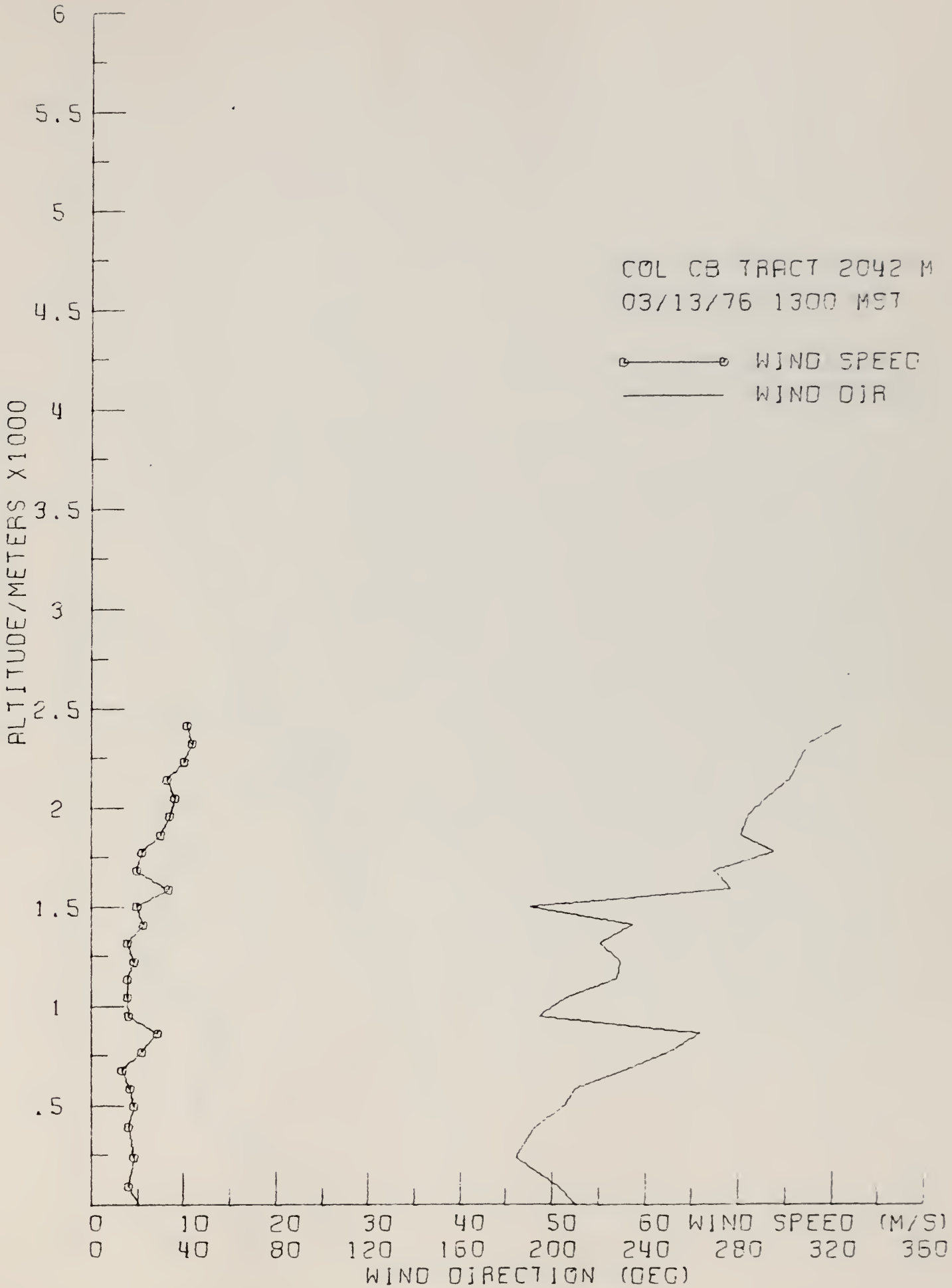
TEMPERATURE DEG/C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WIND SPEED
WIND DIR
ALTITUDE/METERS X1000
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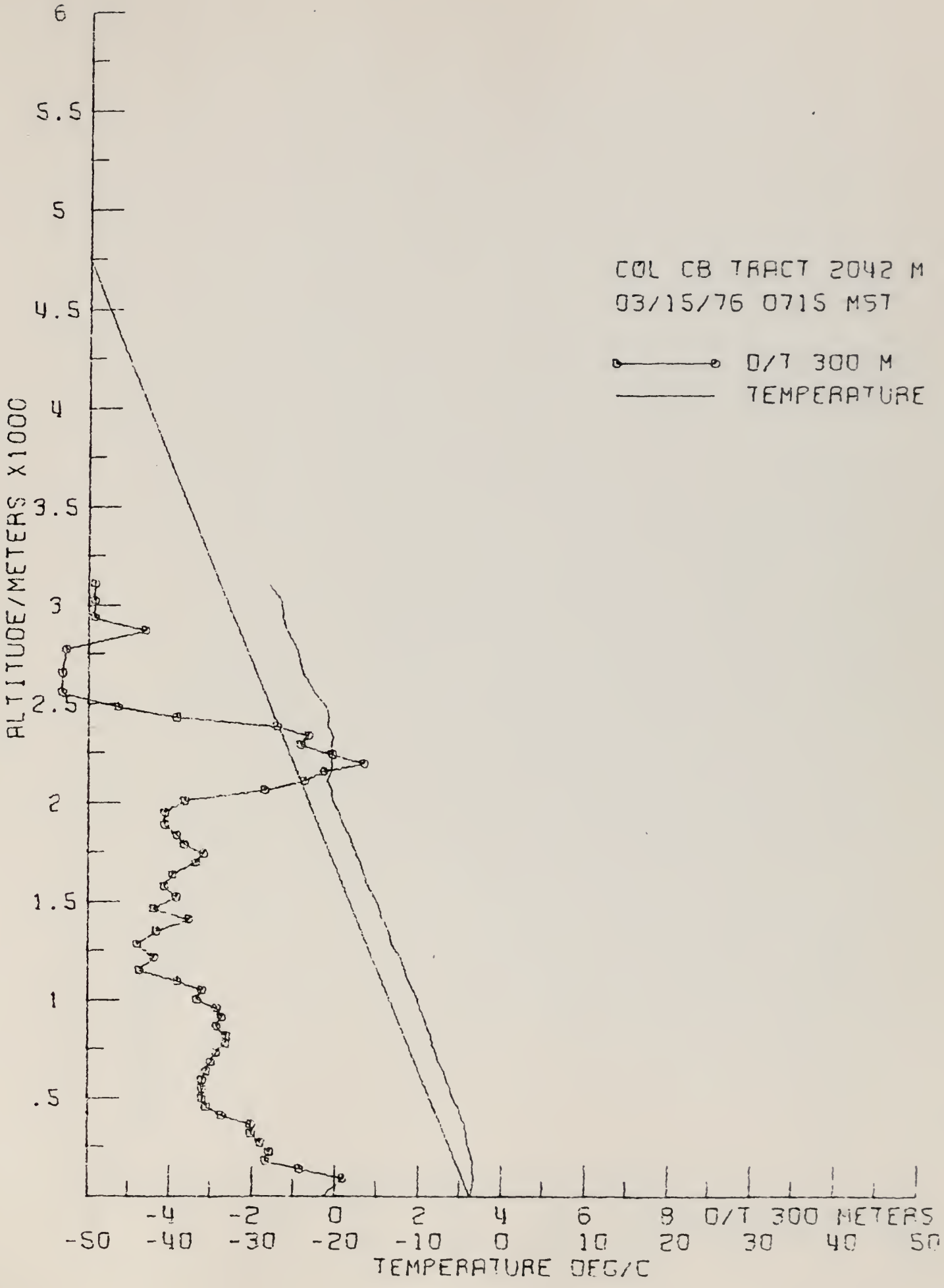
WIND DIRECTION (DEG)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03/15/76 0715 MST
O/T 300 M
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ALTITUDE/METERS X1000
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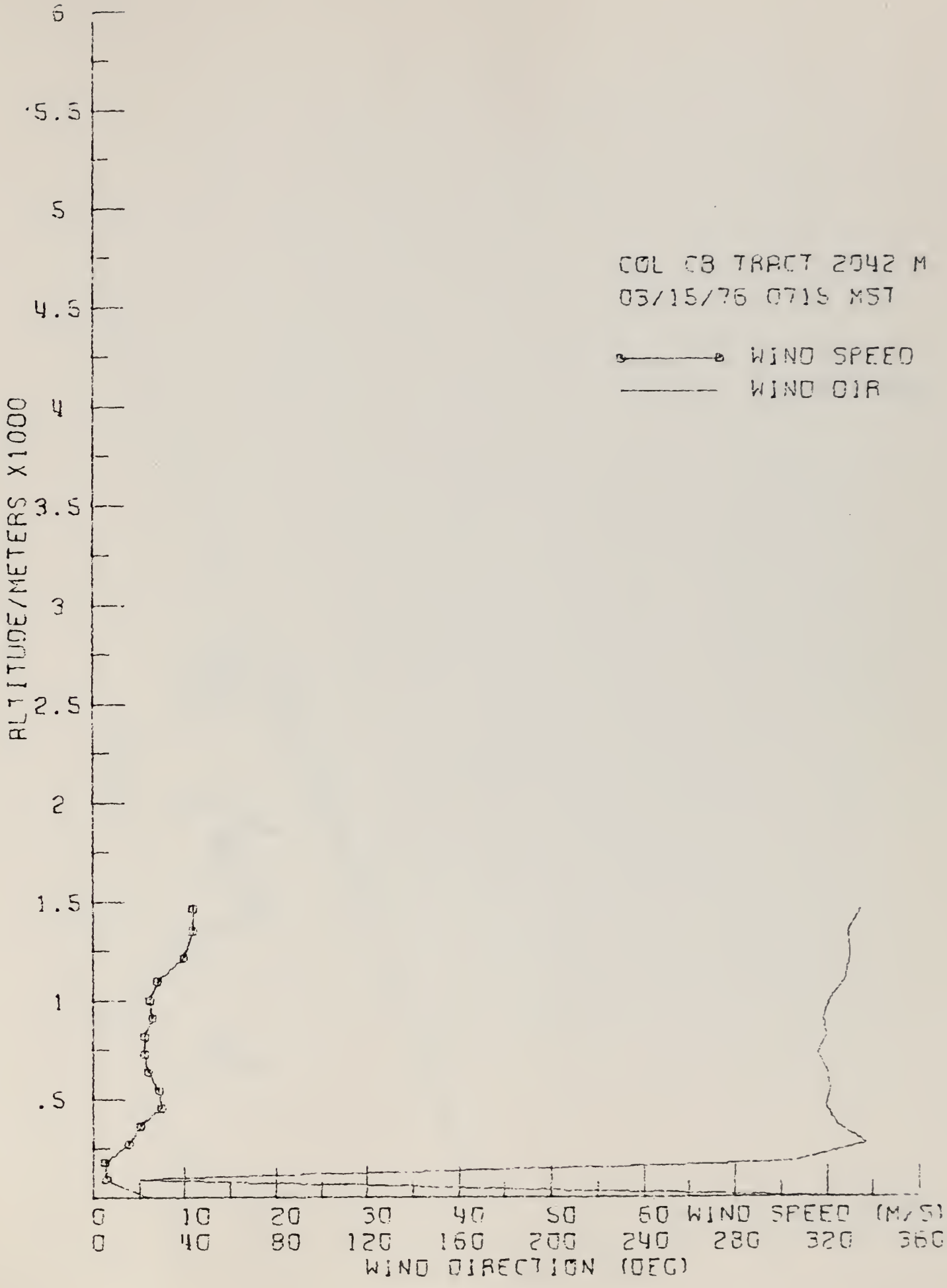
TEMPERATURE DEG/C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WIND SPEED
WIND DIR
ALTITUDE/METERS X1000
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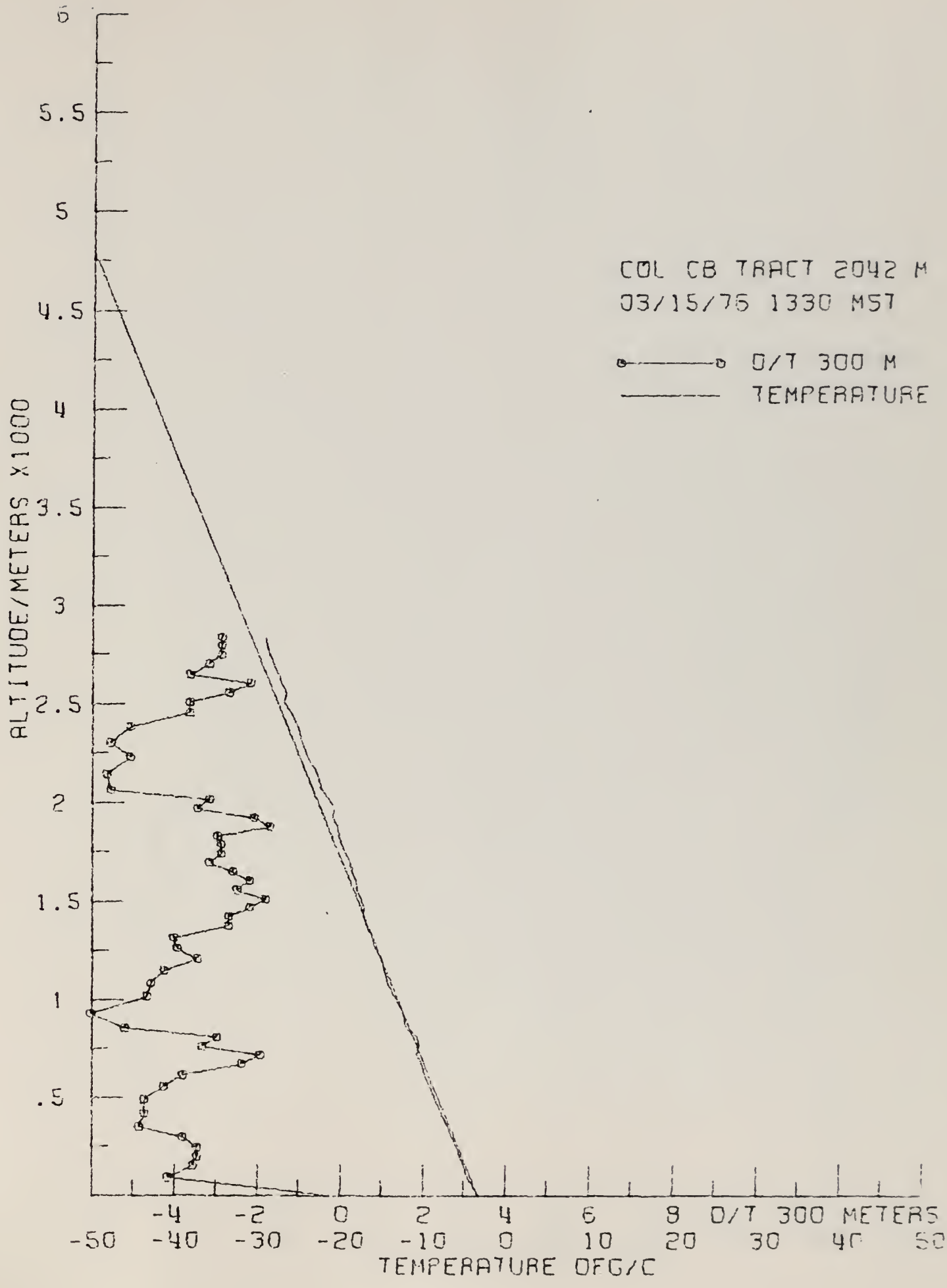
WIND DIRECTION (DEG)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O/T 300 METERS
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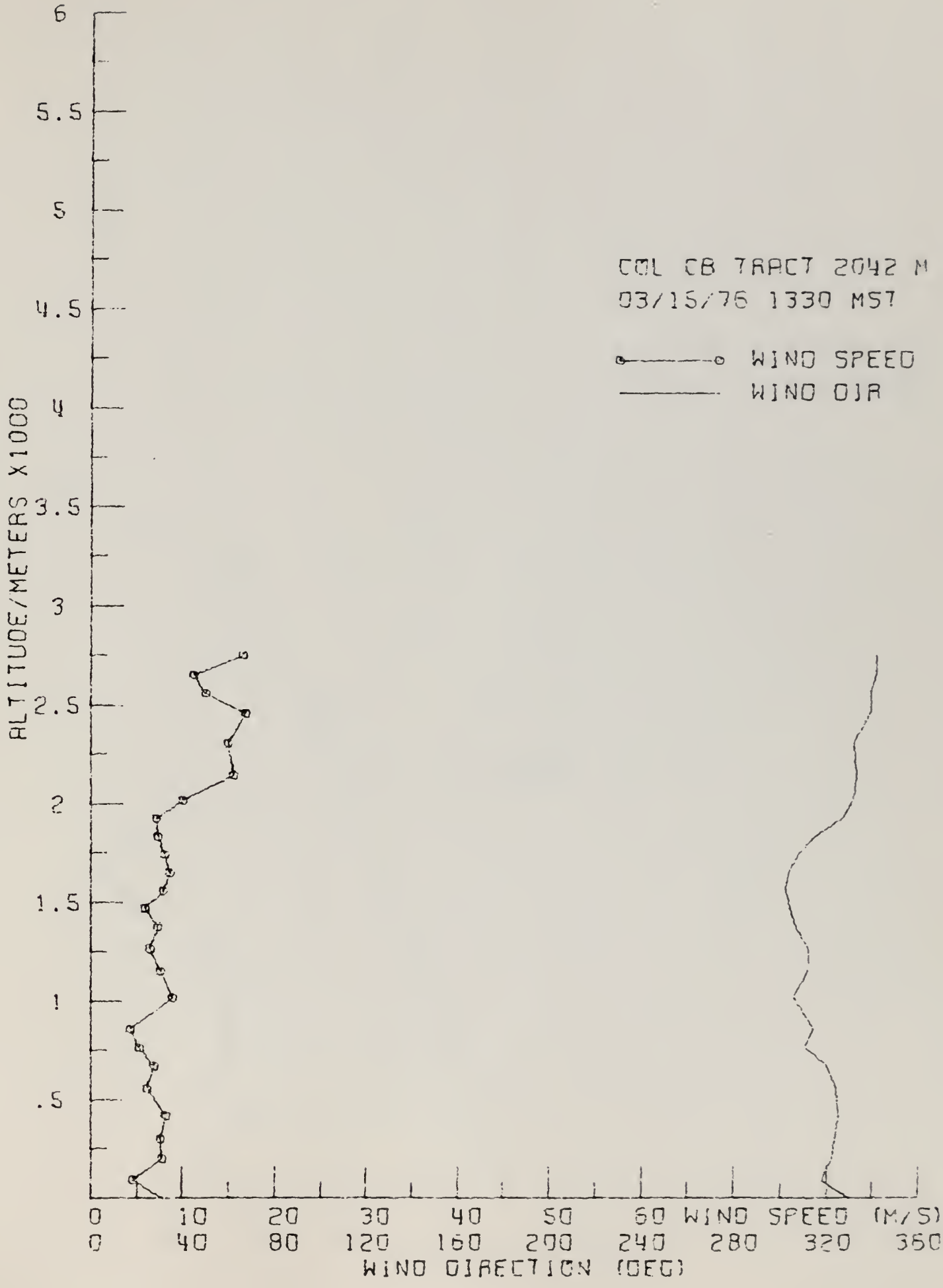
TEMPERATURE DEG/C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WIND SPEED
WIND DIR
ALTITUDE/METERS X1000
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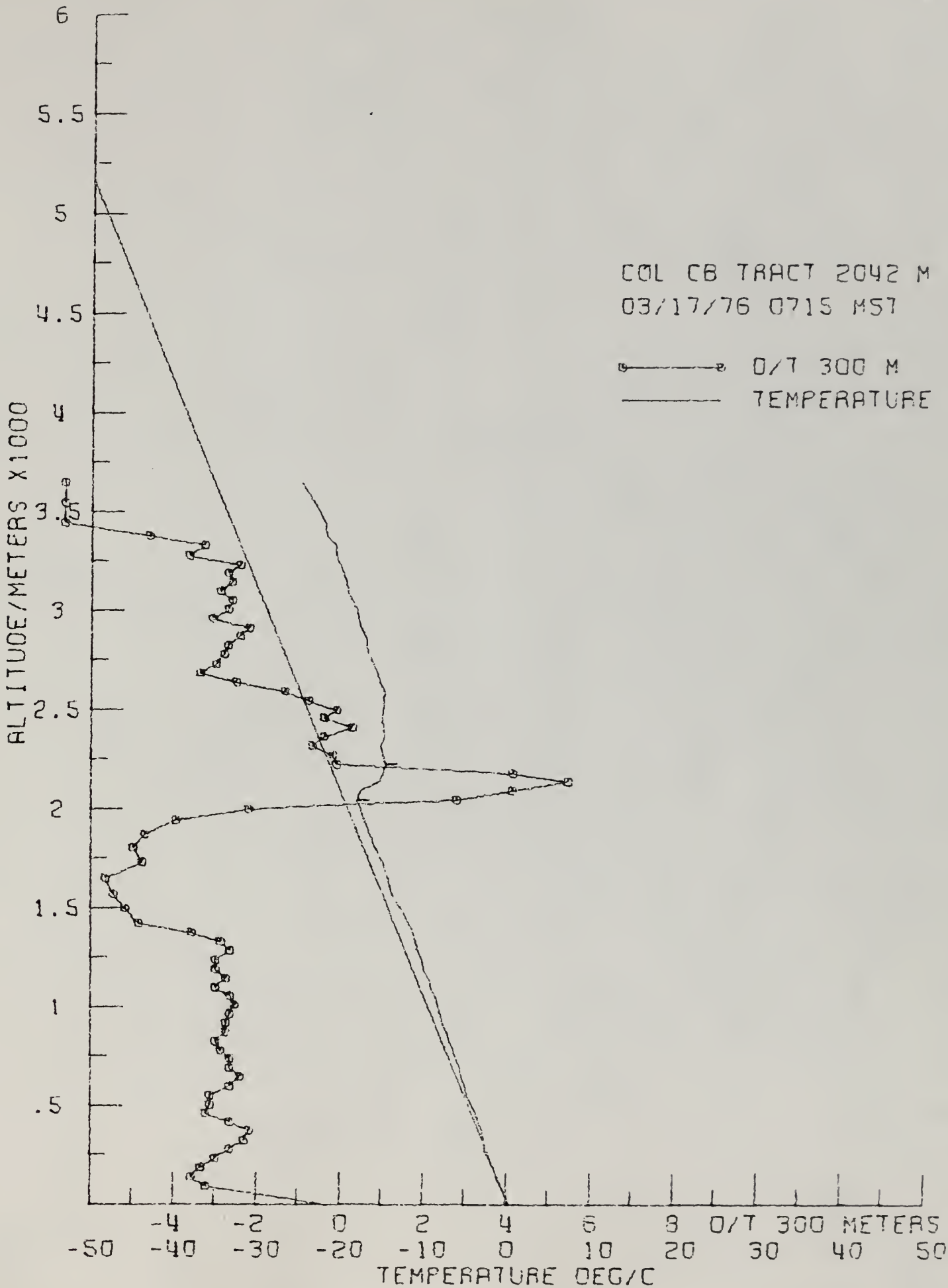
WIND DIRECTION (DEG)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03/17/76 0715 MST
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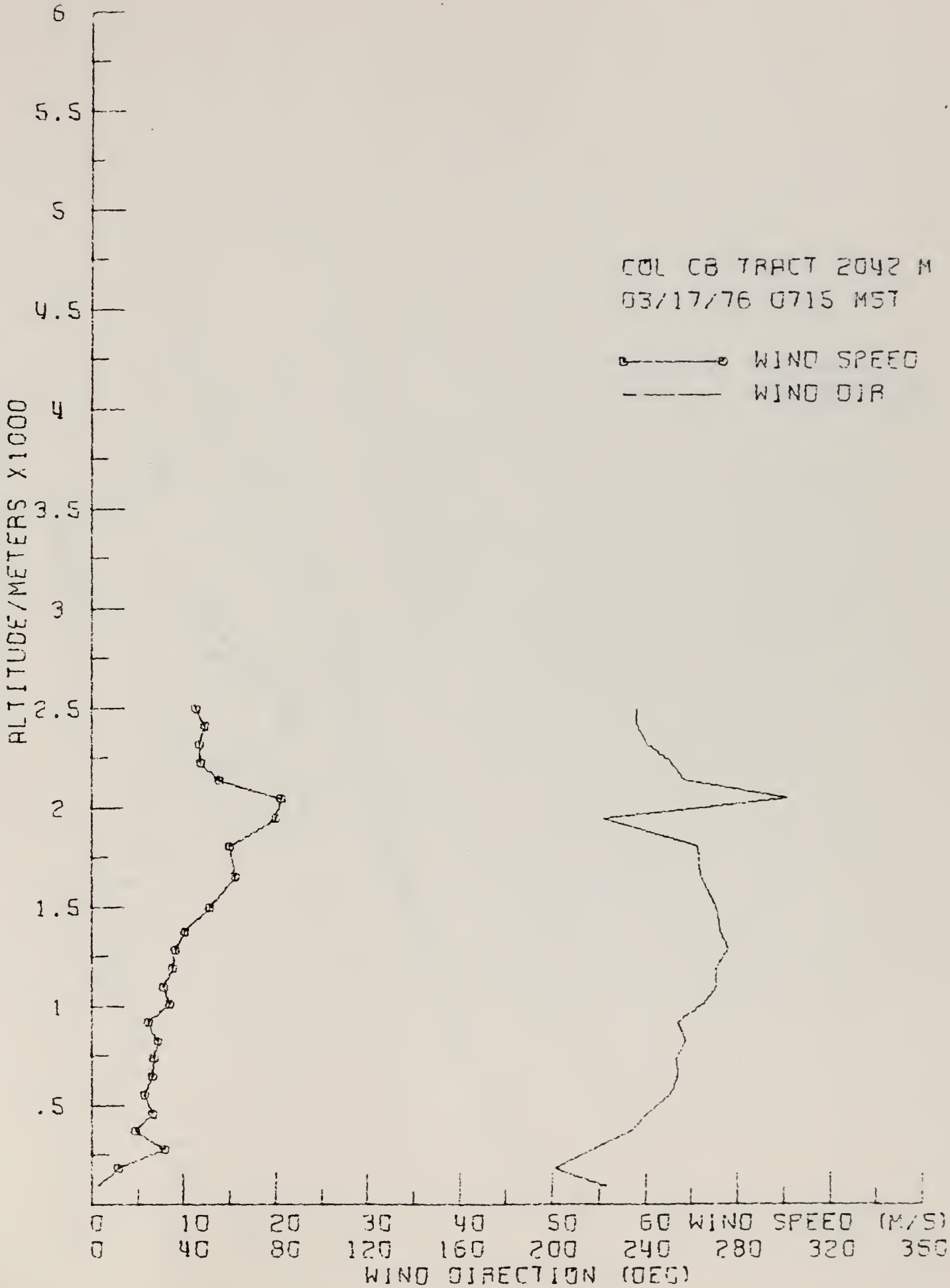
TEMPERATURE DEG/C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03/17/76 0715 MST
WIND SPEED
WIND DIR
ALTITUDE/METERS X1000
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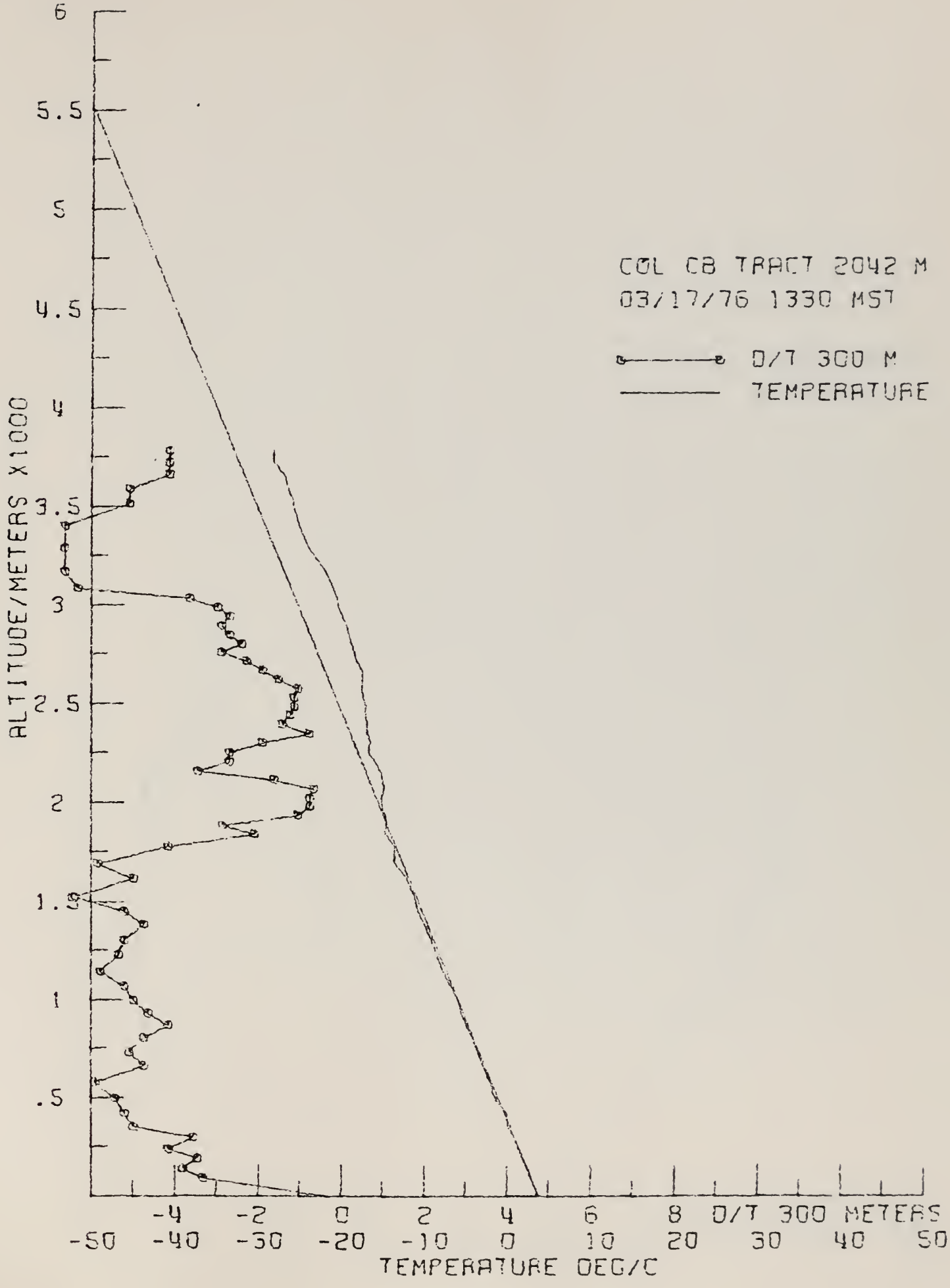
WIND DIRECTION (DEG)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03/17/76 1330 MST
D/T 300 M
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ALTITUDE/METERS X1000
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D/T 300 METERS
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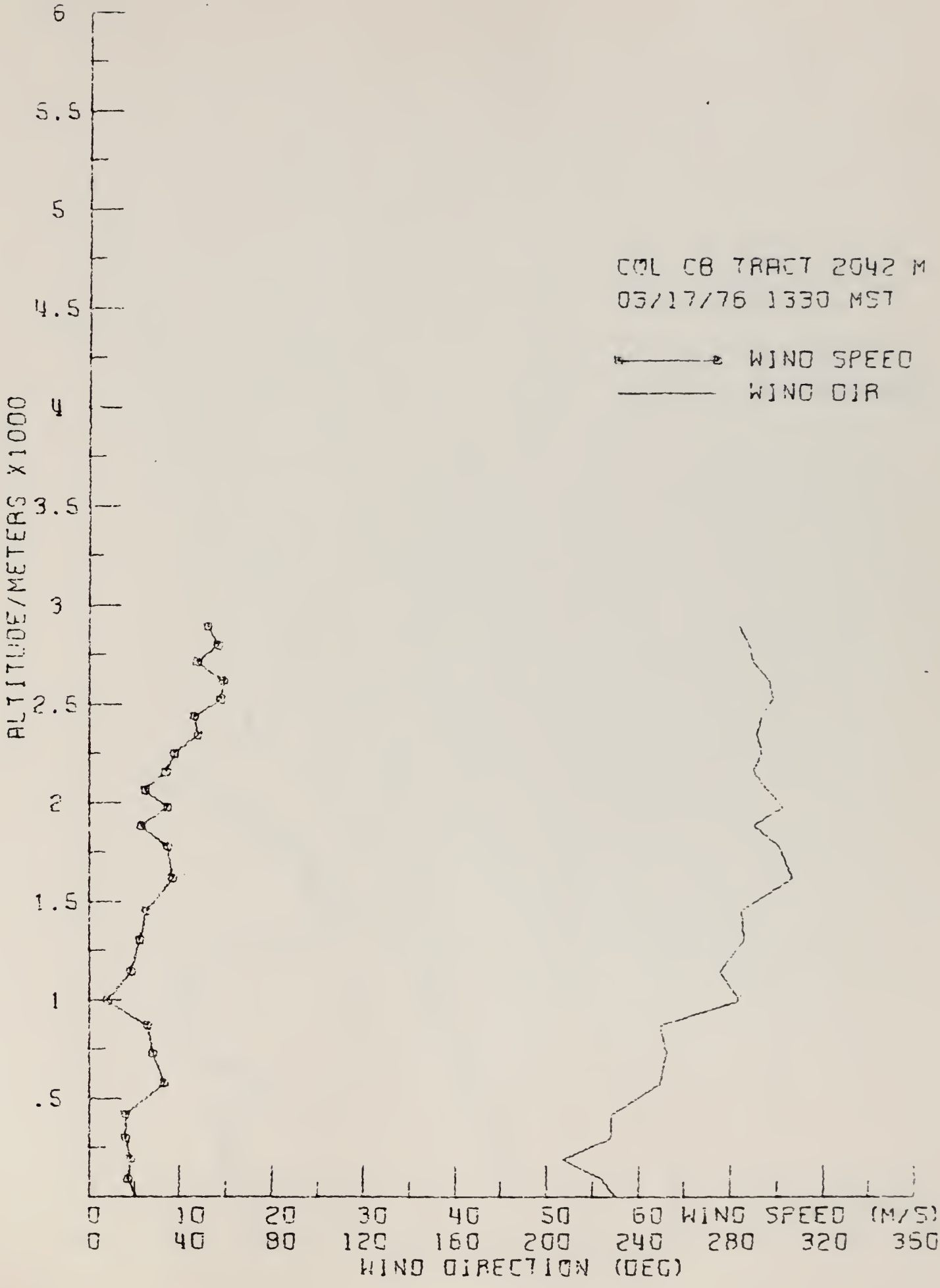
TEMPERATURE DEG/C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03/17/76 1330 MST
WIND SPEED
WIND DIR
ALTITUDE/METERS X1000
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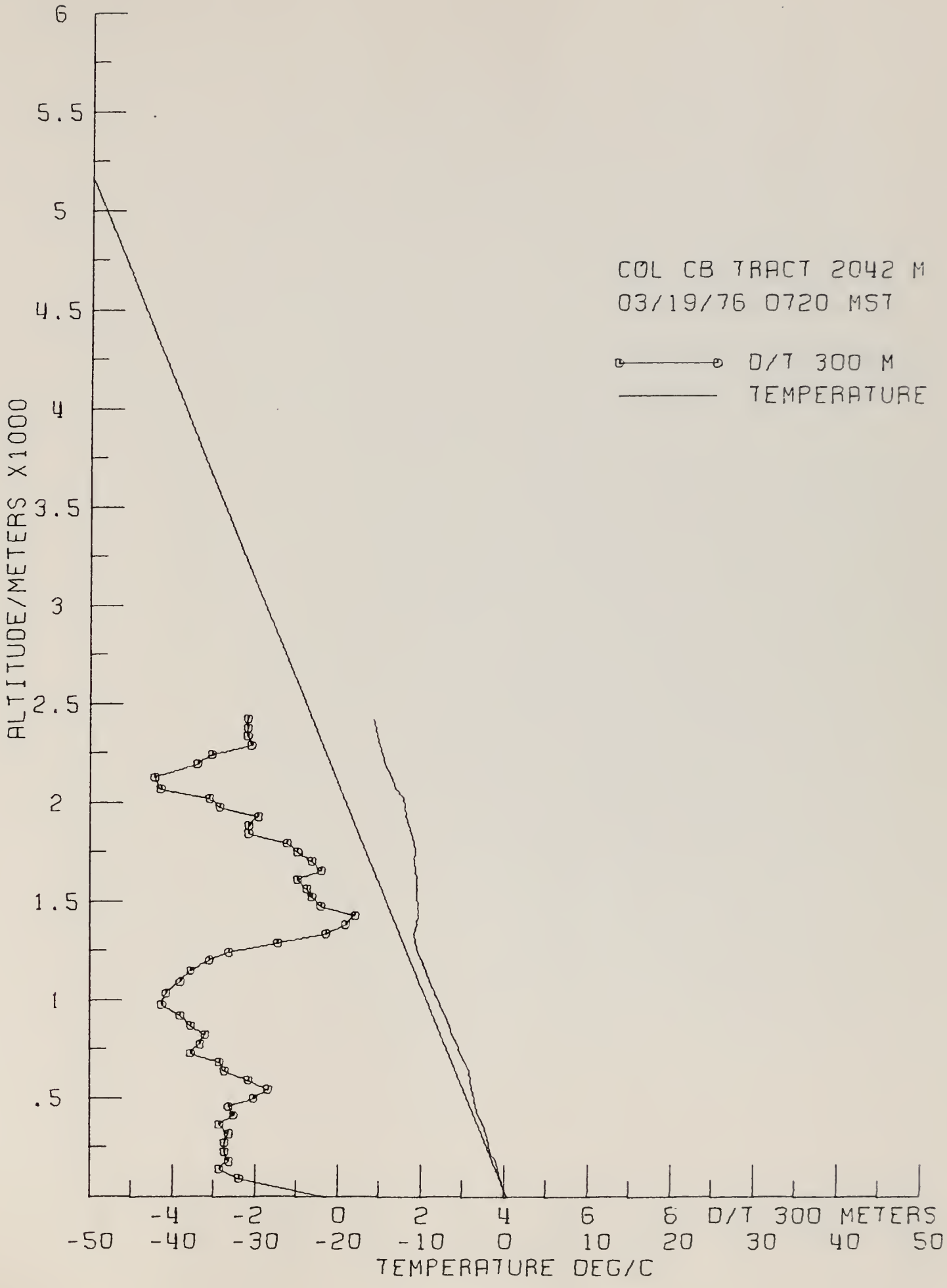
0 10 20 30 40 50 60 WIND SPEED (M/S)
0 40 80 120 160 200 240 280 320 350
WIND DIRECTION (DEG)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03/19/76 0720 MST
D/T 300 M
TEMPERATURE
ALTITUDE/METERS X1000
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4.5
4
3.5
3
2.5
2
1.5
1
.5
-4
-2
0
2
4
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D/T 300 METERS
-50
-40
-30
-20
-10
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20
30
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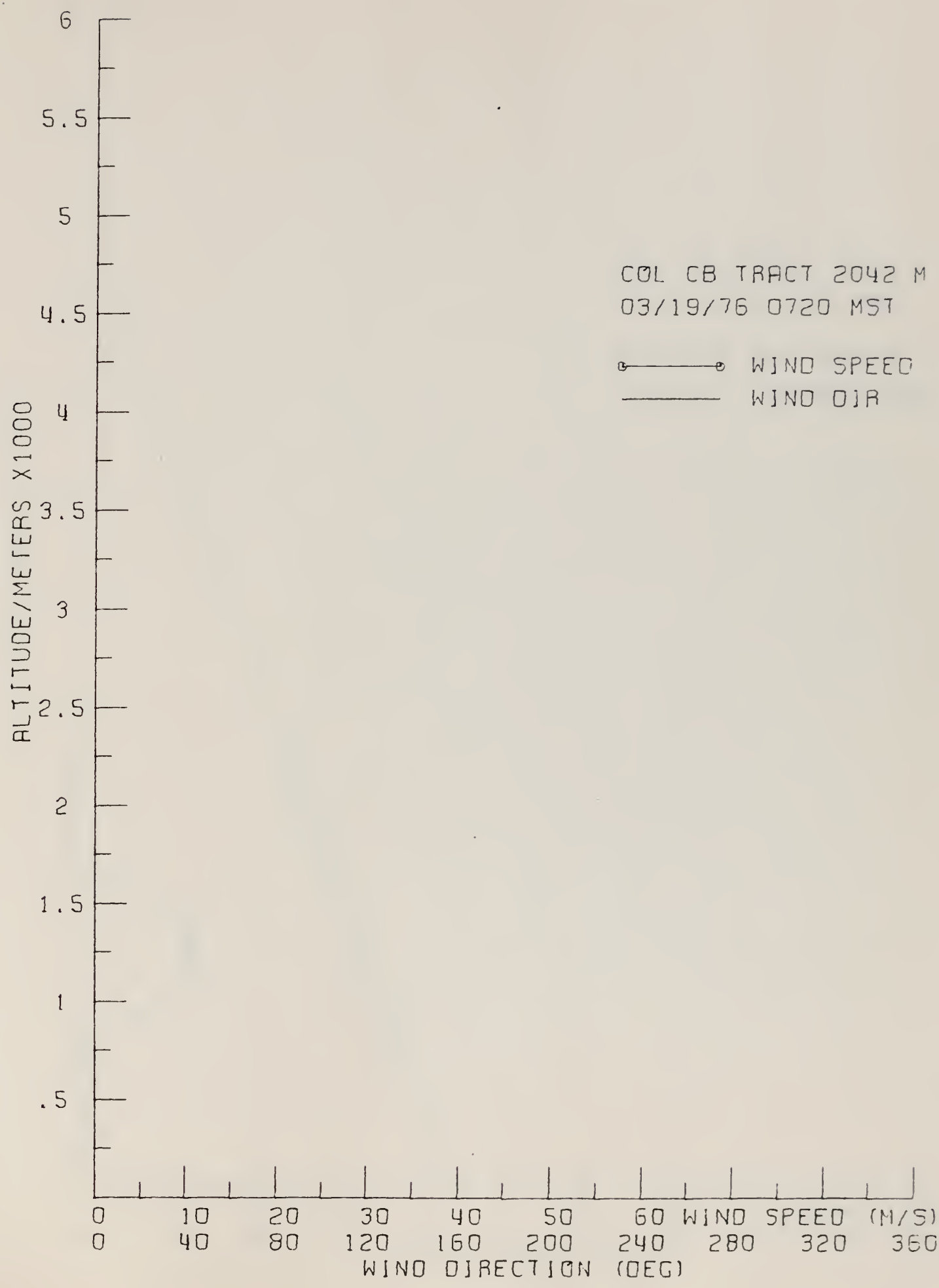
TEMPERATURE DEG/C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03/19/76 0720 MST
WIND SPEED
WIND DIR
ALTITUDE/METERS X1000
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4.5
4
3.5
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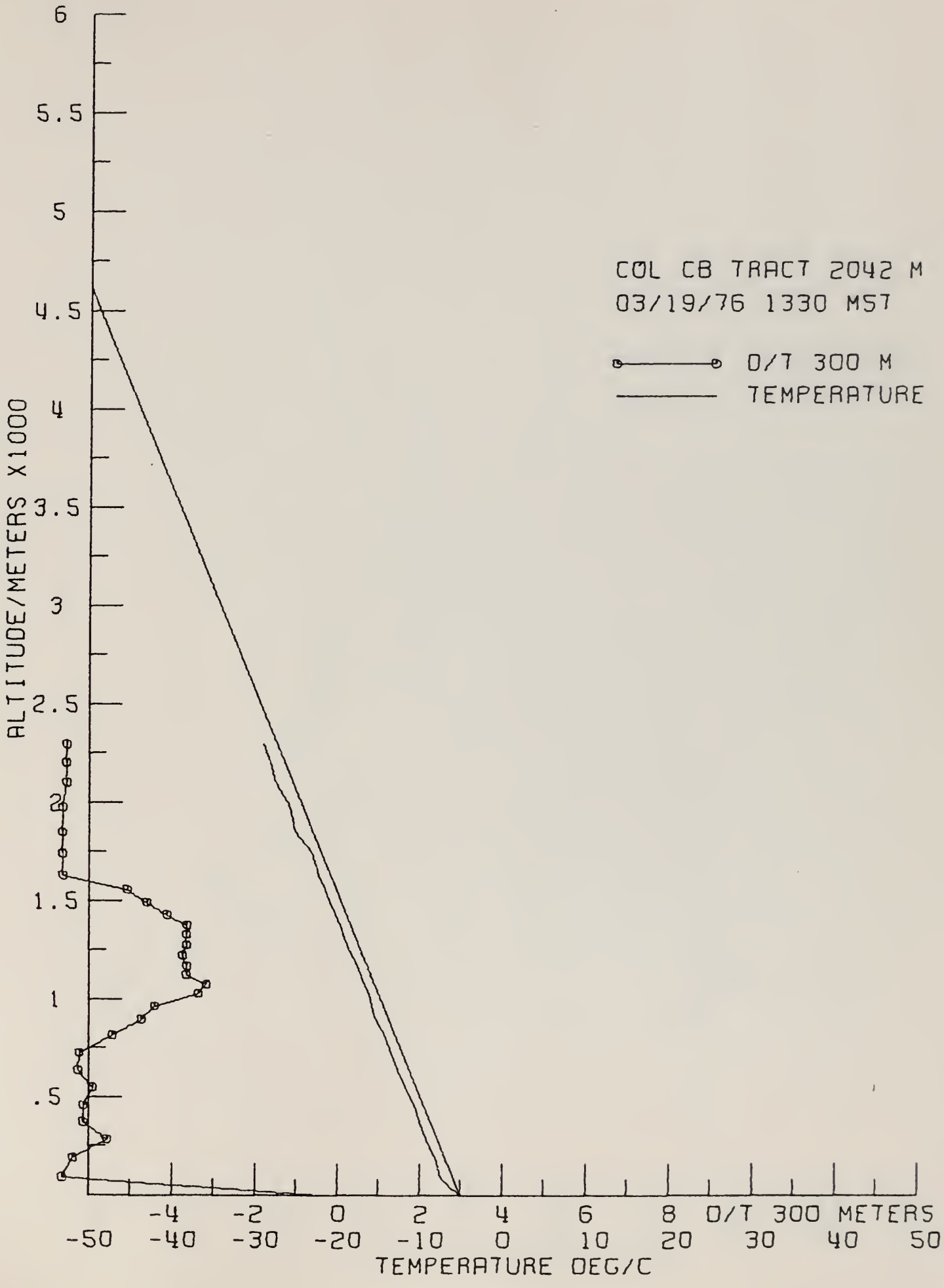
2
1.5
1
.5
0 10 20 30 40 50 60 WIND SPEED (M/S)
0 40 80 120 160 200 240 280 320 360
WIND DIRECTION (DEG)


COL CB TRACT 2042 M
03/19/76 1330 MST
O/T 300 M
TEMPERATURE
ALTITUDE/METERS X1000
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4
3.5
3
2.5
2
1.5
1
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-4
-2
0
2
4
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-30
-20
-10
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10
20
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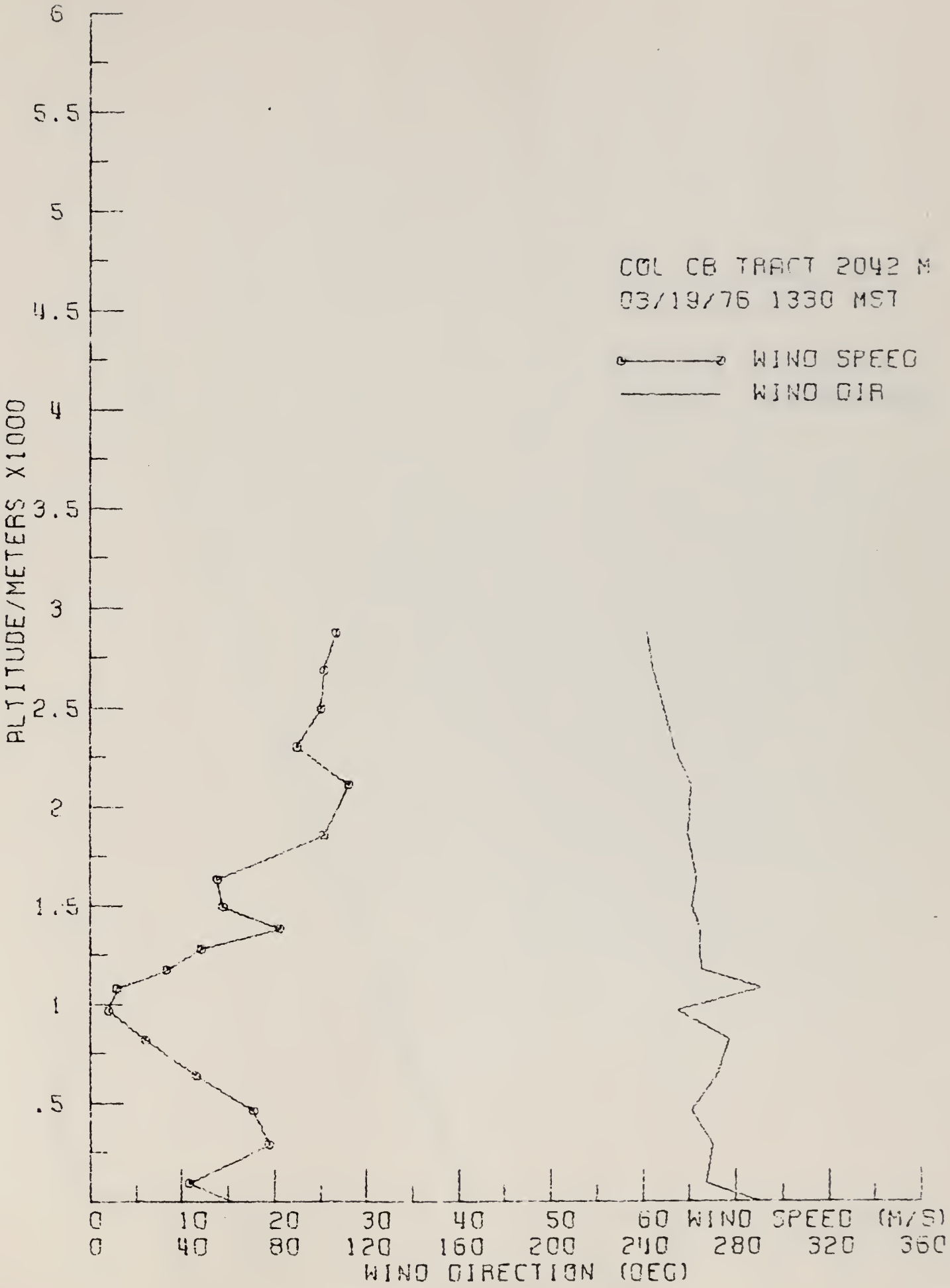
TEMPERATURE DEG/C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03/19/76 1330 MST
WIND SPEED
WIND DIR
ALTITUDE/METERS X1000
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4
3.5
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1
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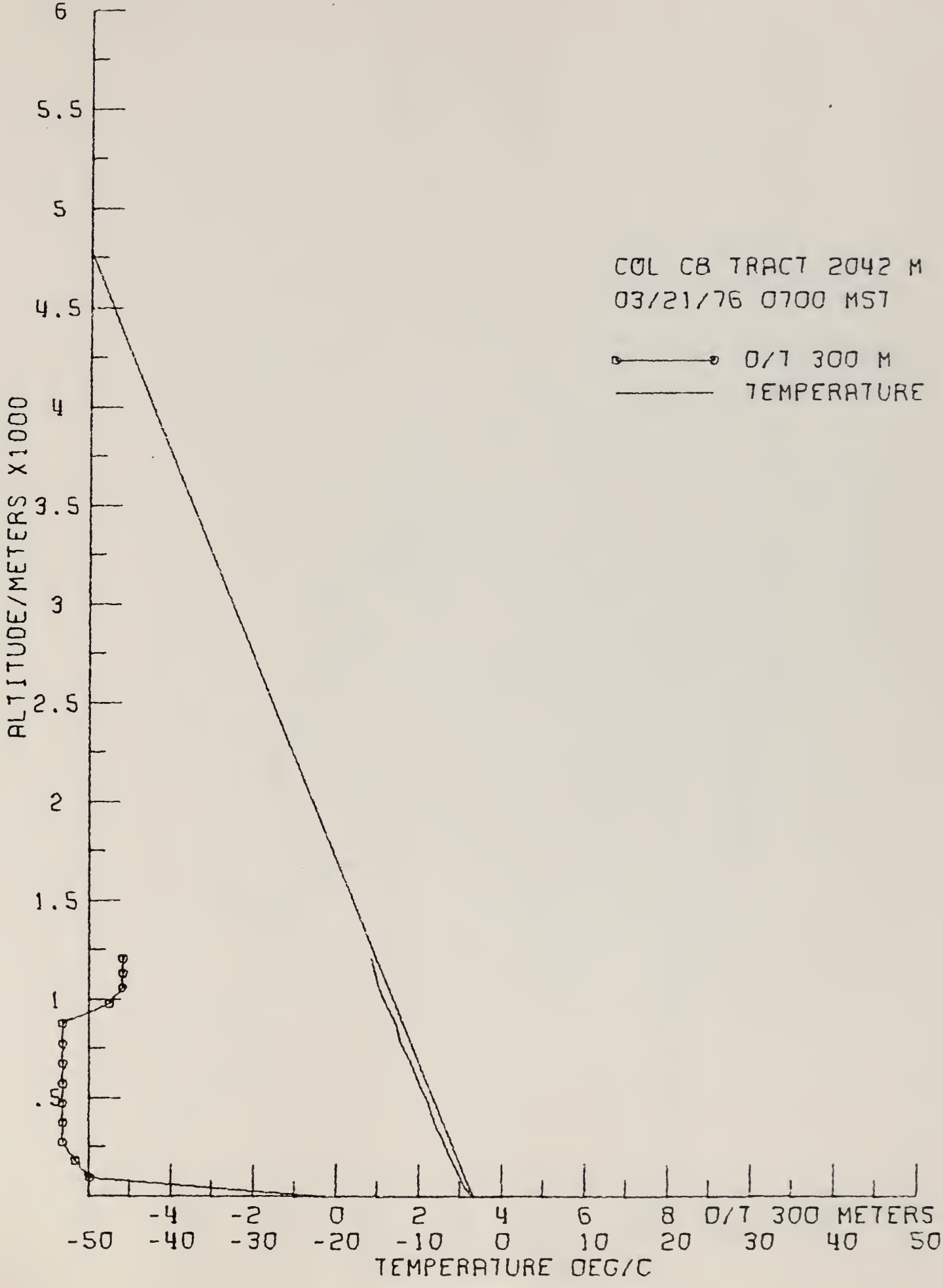
0 10 20 30 40 50 60 WIND SPEED (M/S)
0 40 80 120 160 200 240 280 320 360
WIND DIRECTION (DEG)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03/21/76 0700 MST
O/T 300 M
TEMPERATURE
ALTITUDE/METERS X1000
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4
3.5
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2.5
2
1.5
1
.5
-4
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0
2
4
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O/T 300 METERS
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-30
-20
-10
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10
20
30
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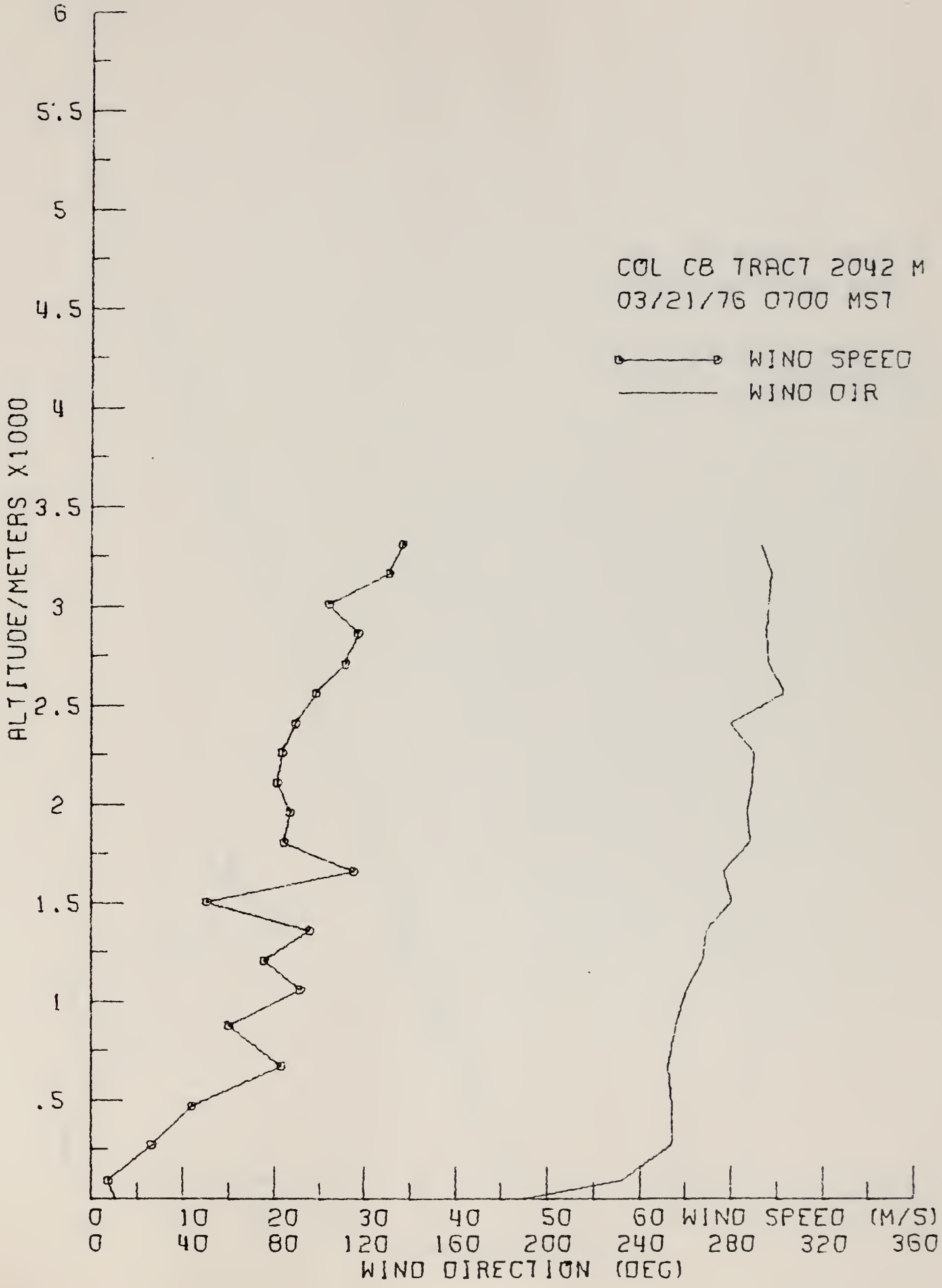
50
TEMPERATURE DEG/C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03/21/76 0700 MST
WIND SPEED
WIND DIR
ALTITUDE/METERS X1000
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4.5
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2.5
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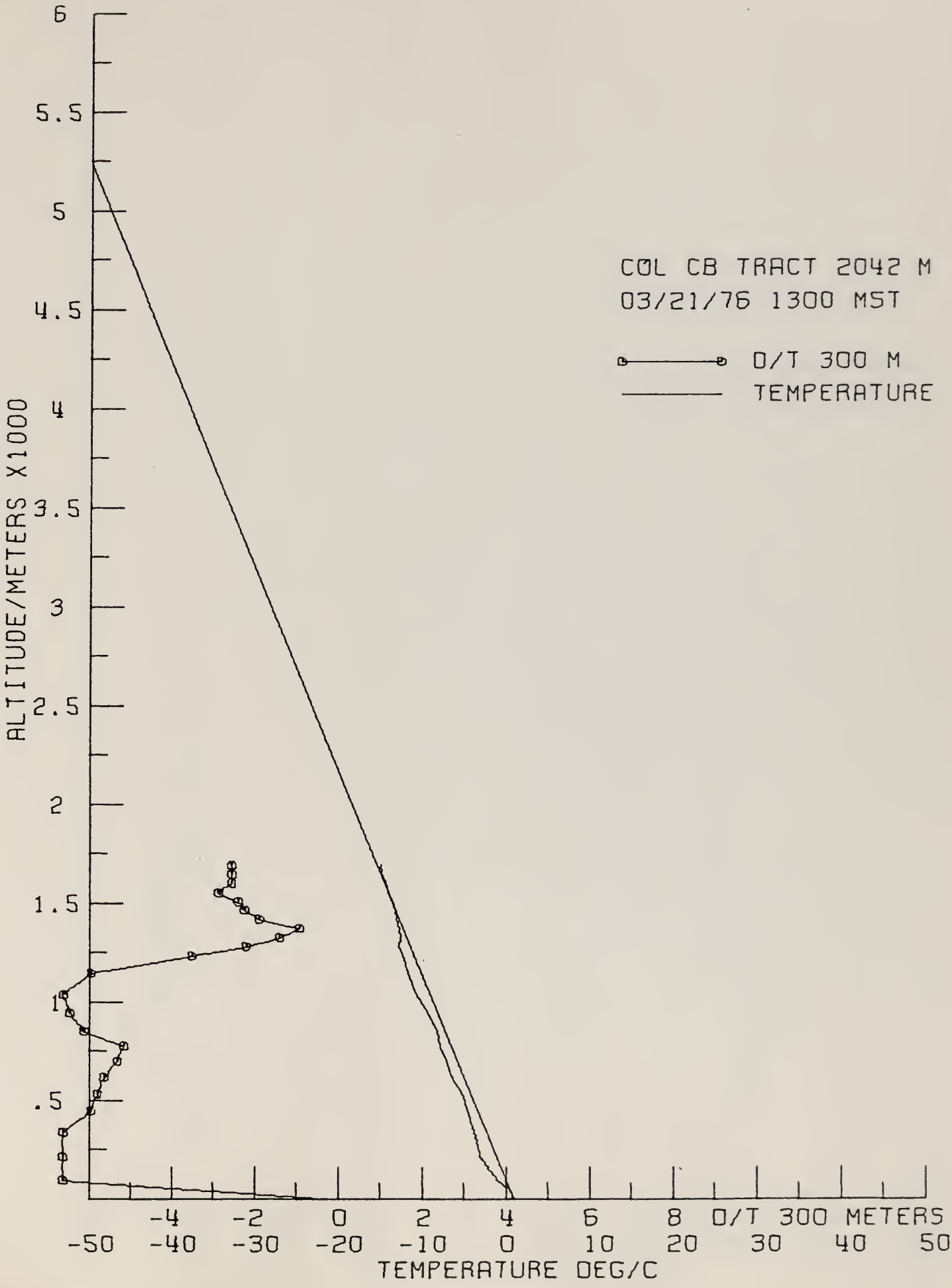
0 40 80 120 160 200 240 280 320 360
WIND DIRECTION (DEG)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03/21/76 1300 MST
O/T 300 M
TEMPERATURE
ALTITUDE/METERS X1000
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4.5
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1.5
1
.5
-4
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0
2
4
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O/T 300 METERS
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-30
-20
-10
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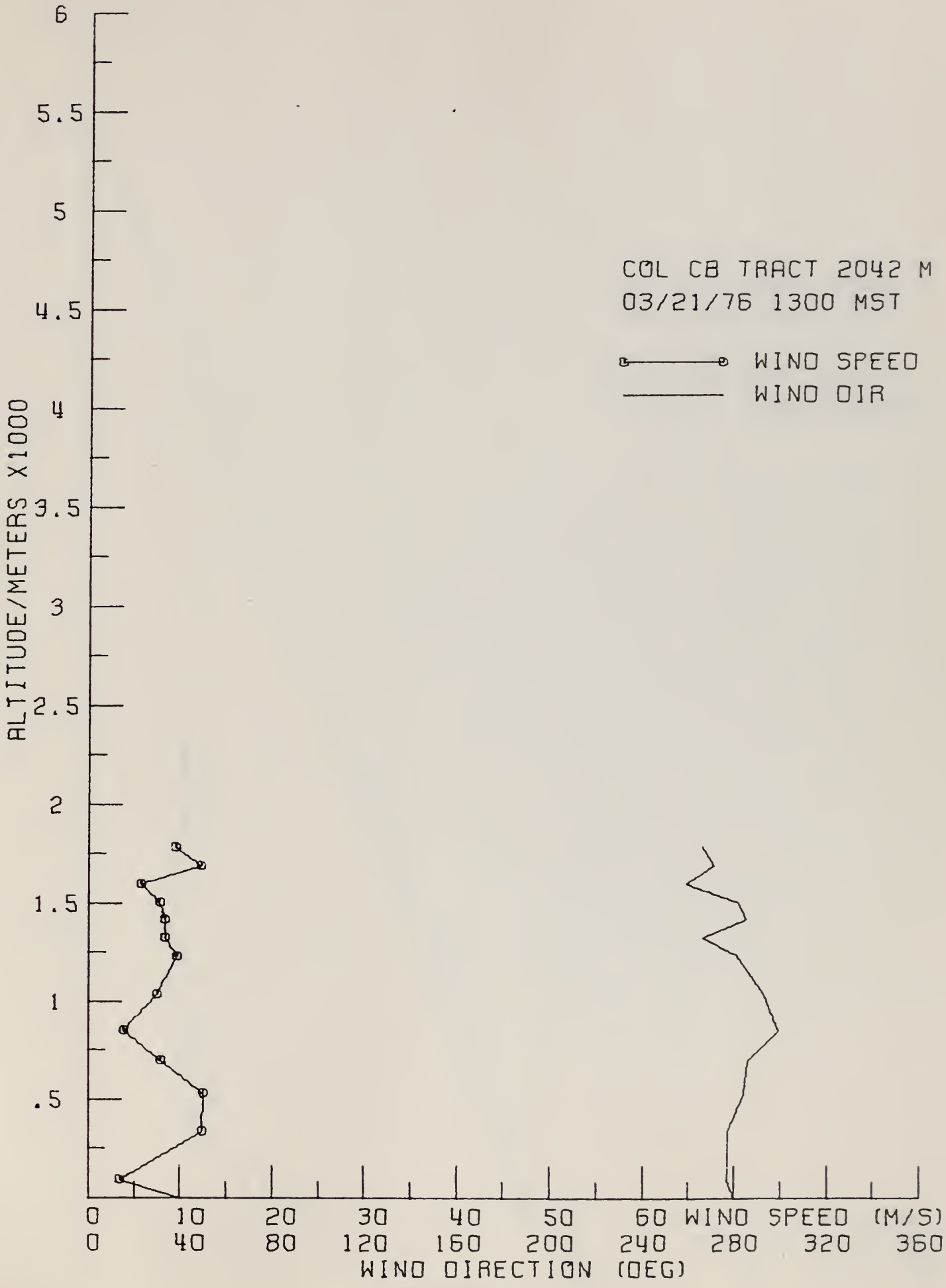
10
20
30
40
50
TEMPERATURE DEG/C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03/21/76 1300 MST
WIND SPEED
WIND DIR
ALTITUDE/METERS X1000
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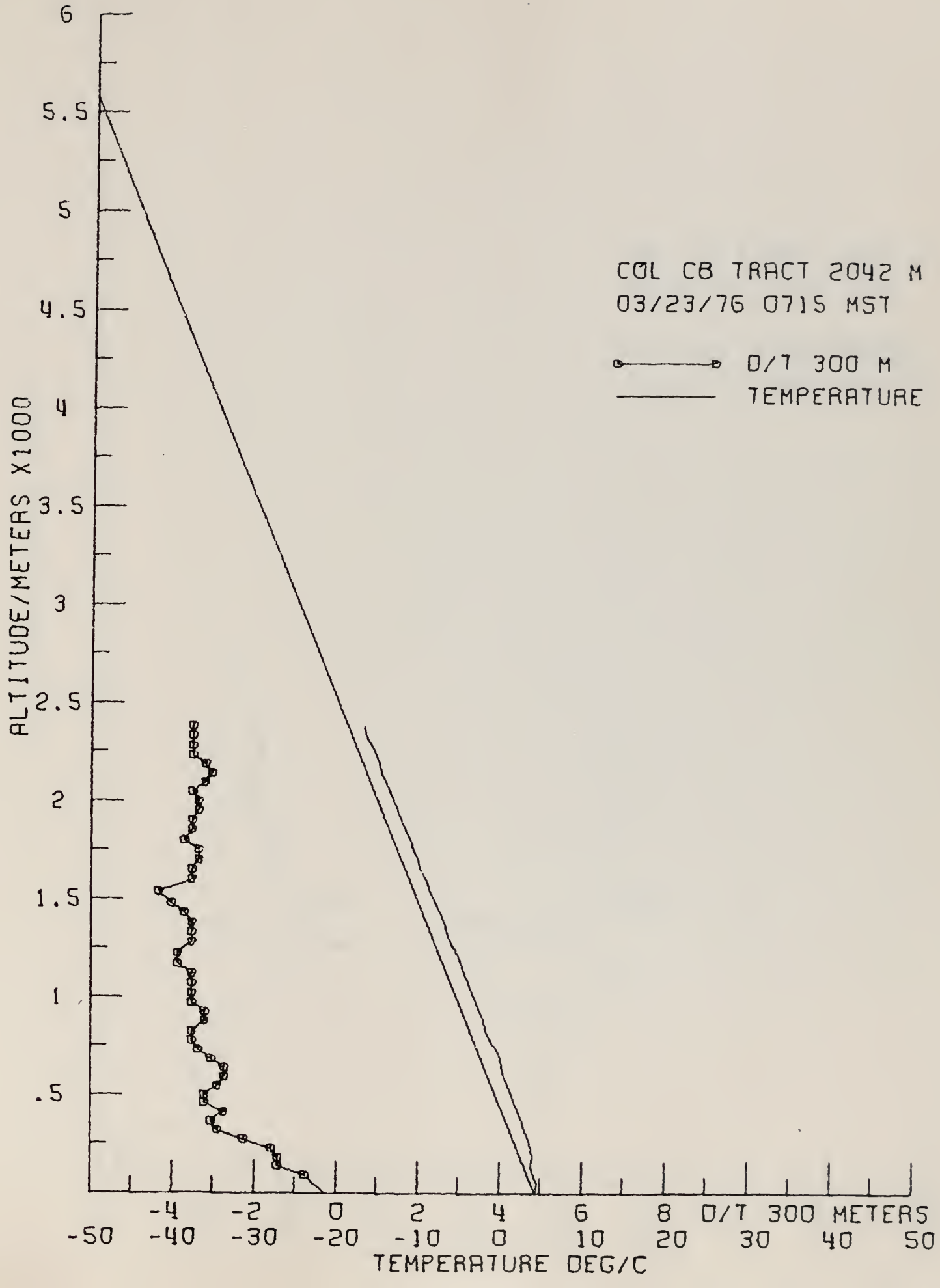
0 10 20 30 40 50 60 WIND SPEED (M/S)
0 40 80 120 160 200 240 280 320 360
WIND DIRECTION (DEG)


COL CB TRACT 2042 M
03/23/76 0715 MST
D/T 300 M
TEMPERATURE
ALTITUDE/METERS X1000
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4.5
4
3.5
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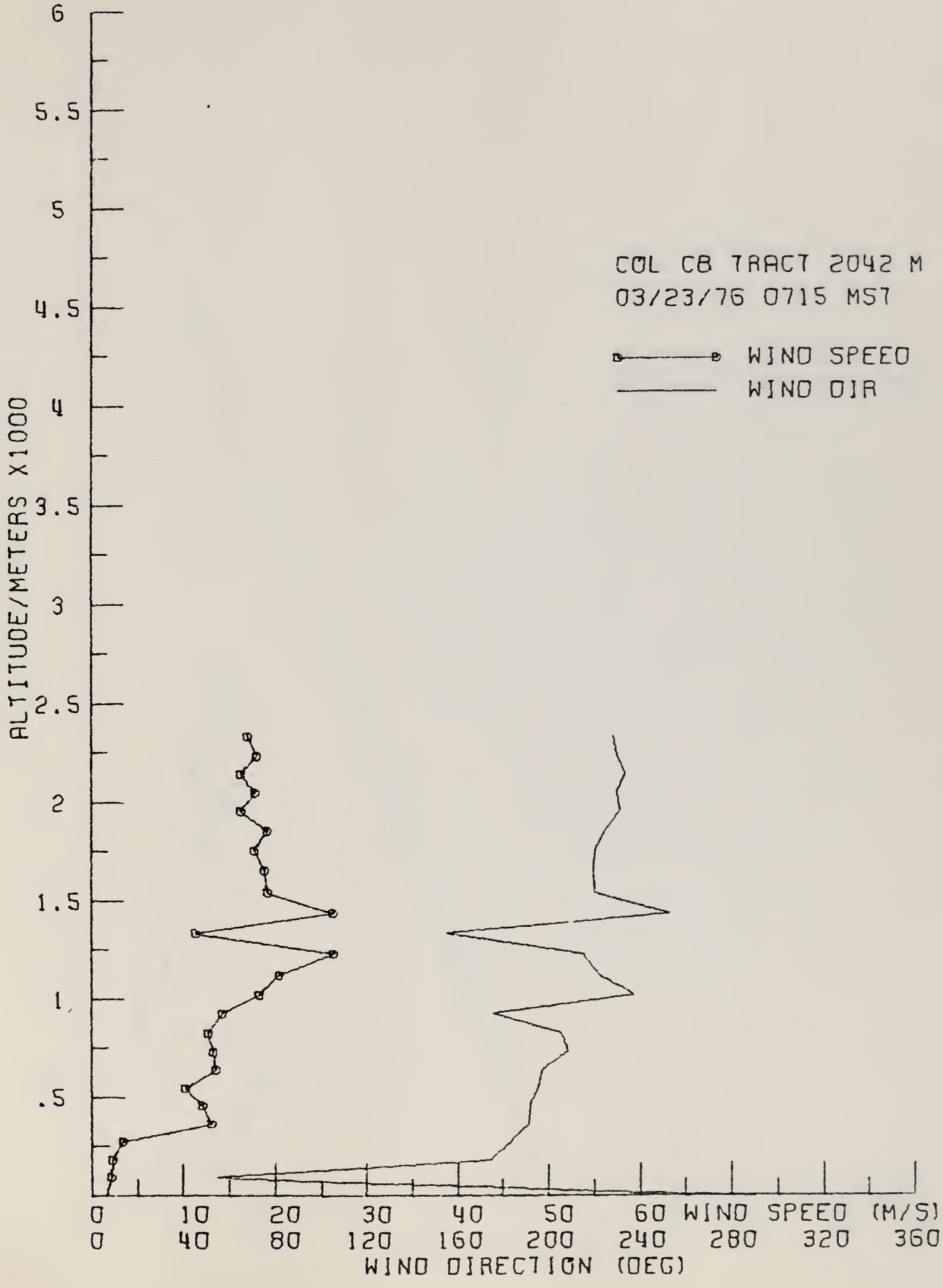
2.5
2
1.5
1
.5
-4
-2
0
2
4
6
8
D/T 300 METERS
-50
-40
-30
-20
-10
0
10
20
30
40
50
TEMPERATURE DEG/C


COL CB TRACT 2042 M
03/23/76 0715 MST
WIND SPEED
WIND DIR
ALTITUDE/METERS X1000
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4.5
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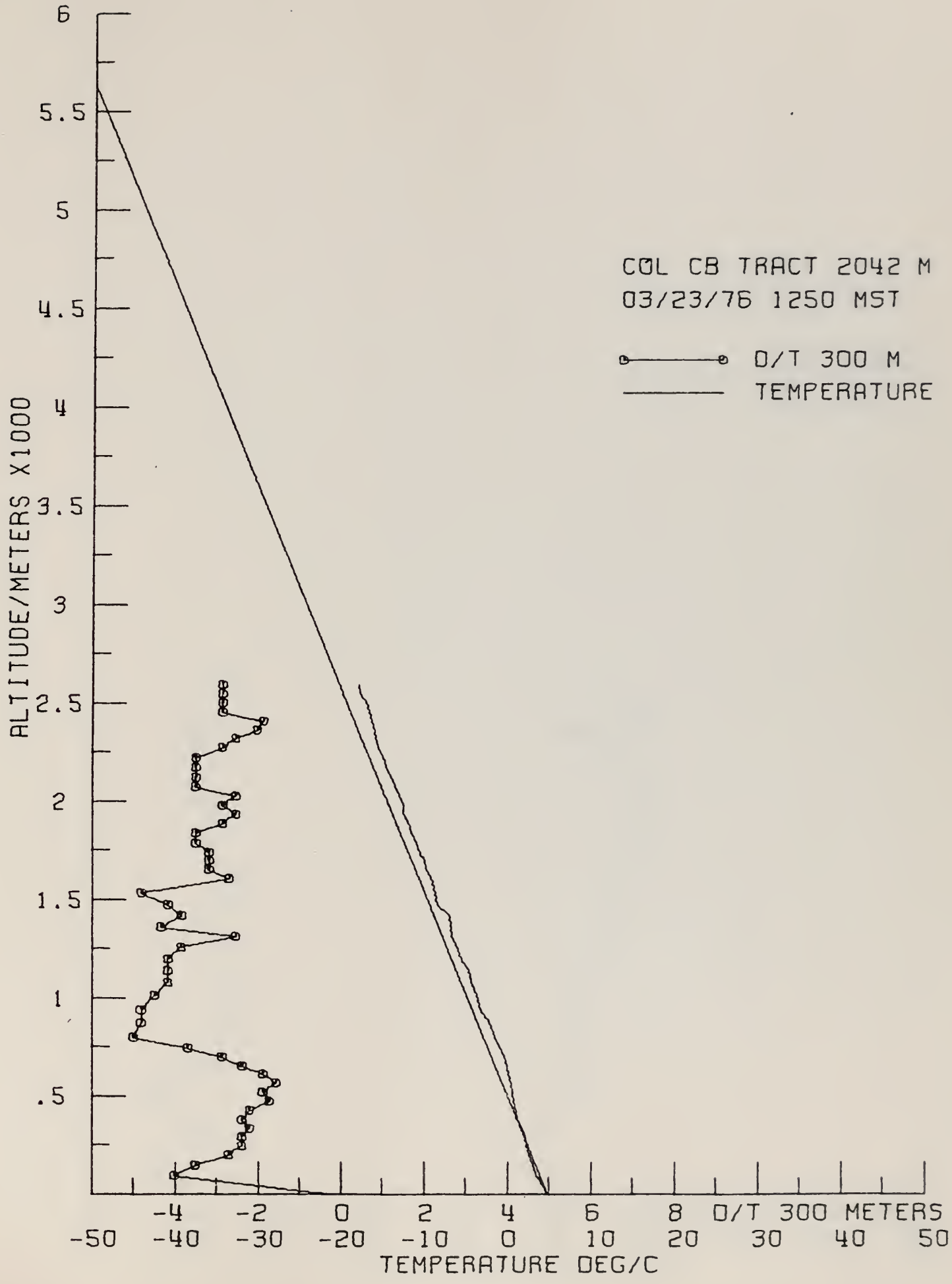
0 10 20 30 40 50 60 WIND SPEED (M/S)
0 40 80 120 160 200 240 280 320 360
WIND DIRECTION (DEG)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03/23/76 1250 MST
O/T 300 M
TEMPERATURE
ALTITUDE/METERS X1000
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1.5
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-4
-2
0
2
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8
O/T 300 METERS
-50
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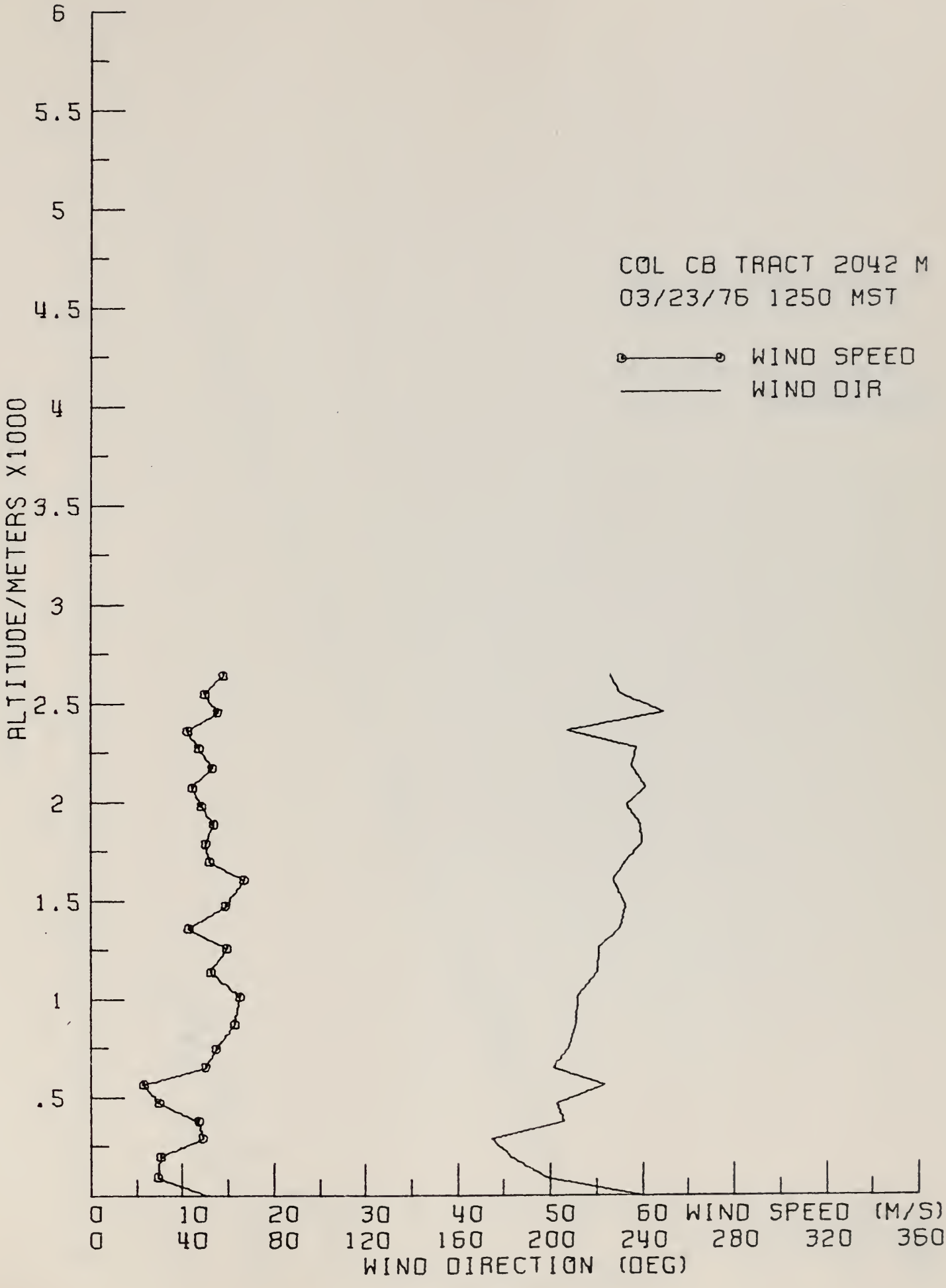
TEMPERATURE DEG/C


COL CB TRACT 2042 M
03/23/76 1250 MST
WIND SPEED
WIND DIR
ALTITUDE/METERS X1000
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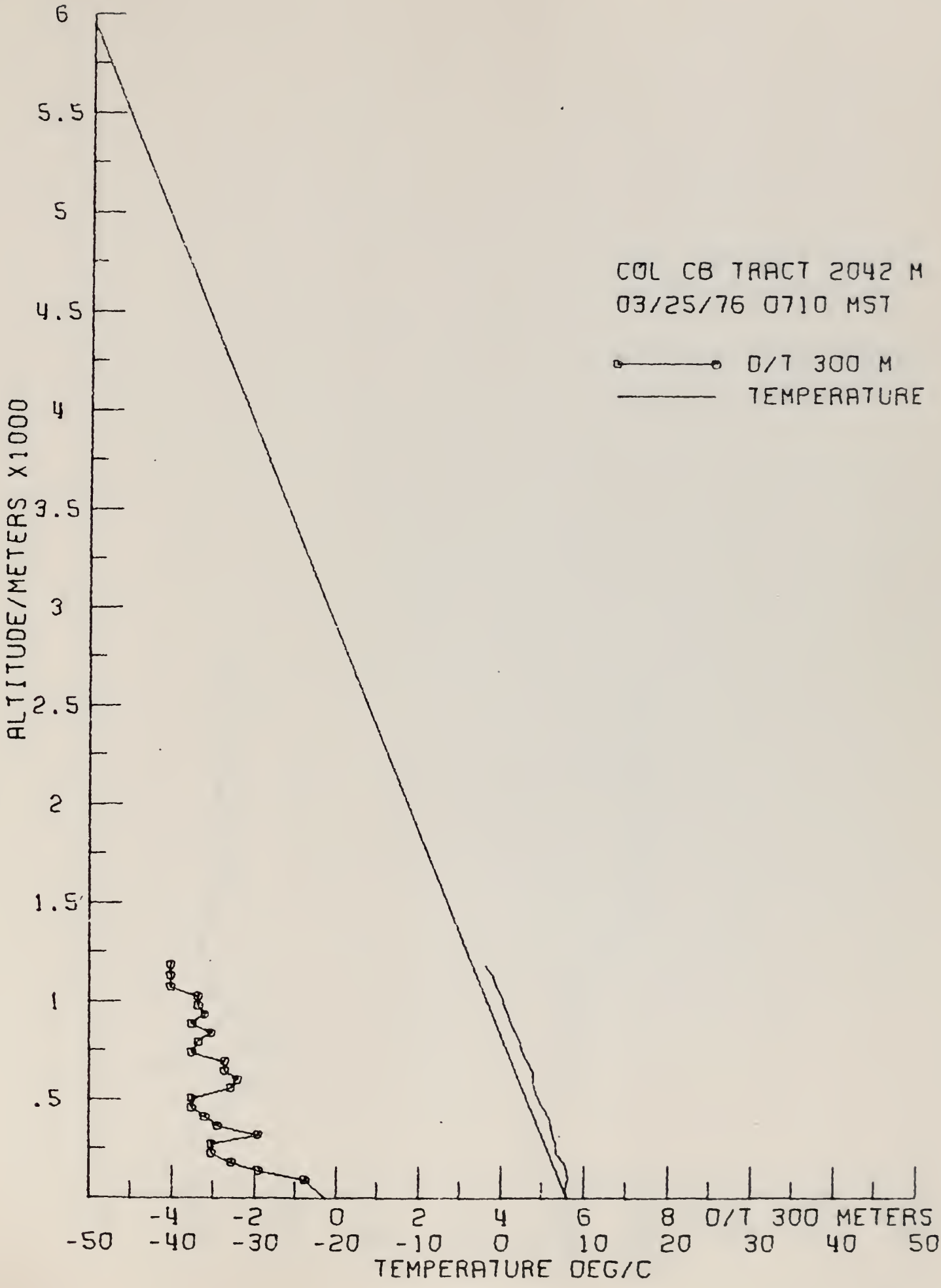
0 10 20 30 40 50 60 WIND SPEED (M/S)
0 40 80 120 160 200 240 280 320 360
WIND DIRECTION (DEG)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03/25/76 0710 MST
O/T 300 M
TEMPERATURE
ALTITUDE/METERS X1000
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-4
-2
0
2
4
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O/T 300 METERS
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-40
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-20
-10
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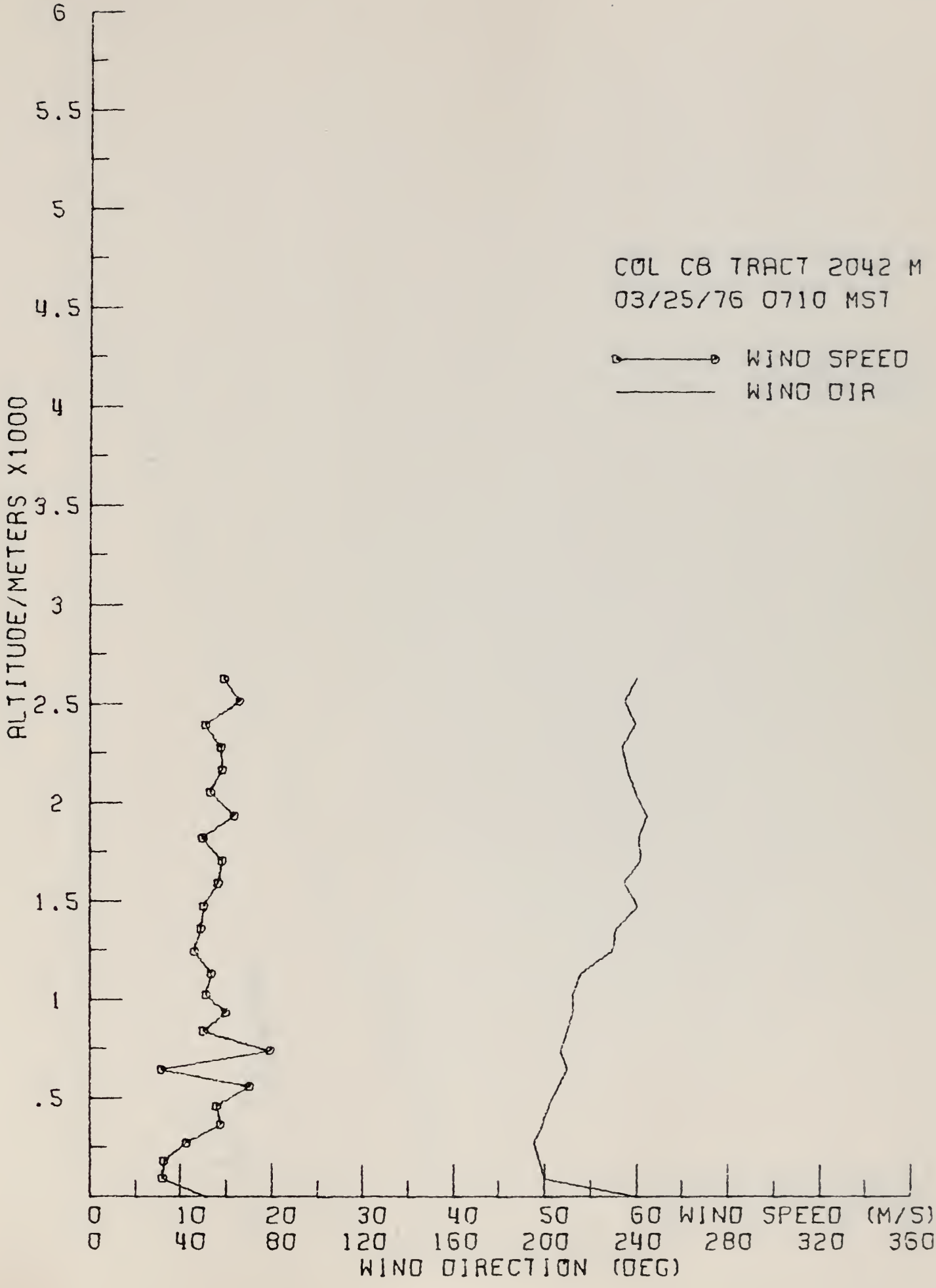
10
20
30
40
50
TEMPERATURE DEG/C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03/25/76 0710 MST
WIND SPEED
WIND DIR
ALTITUDE/METERS X1000
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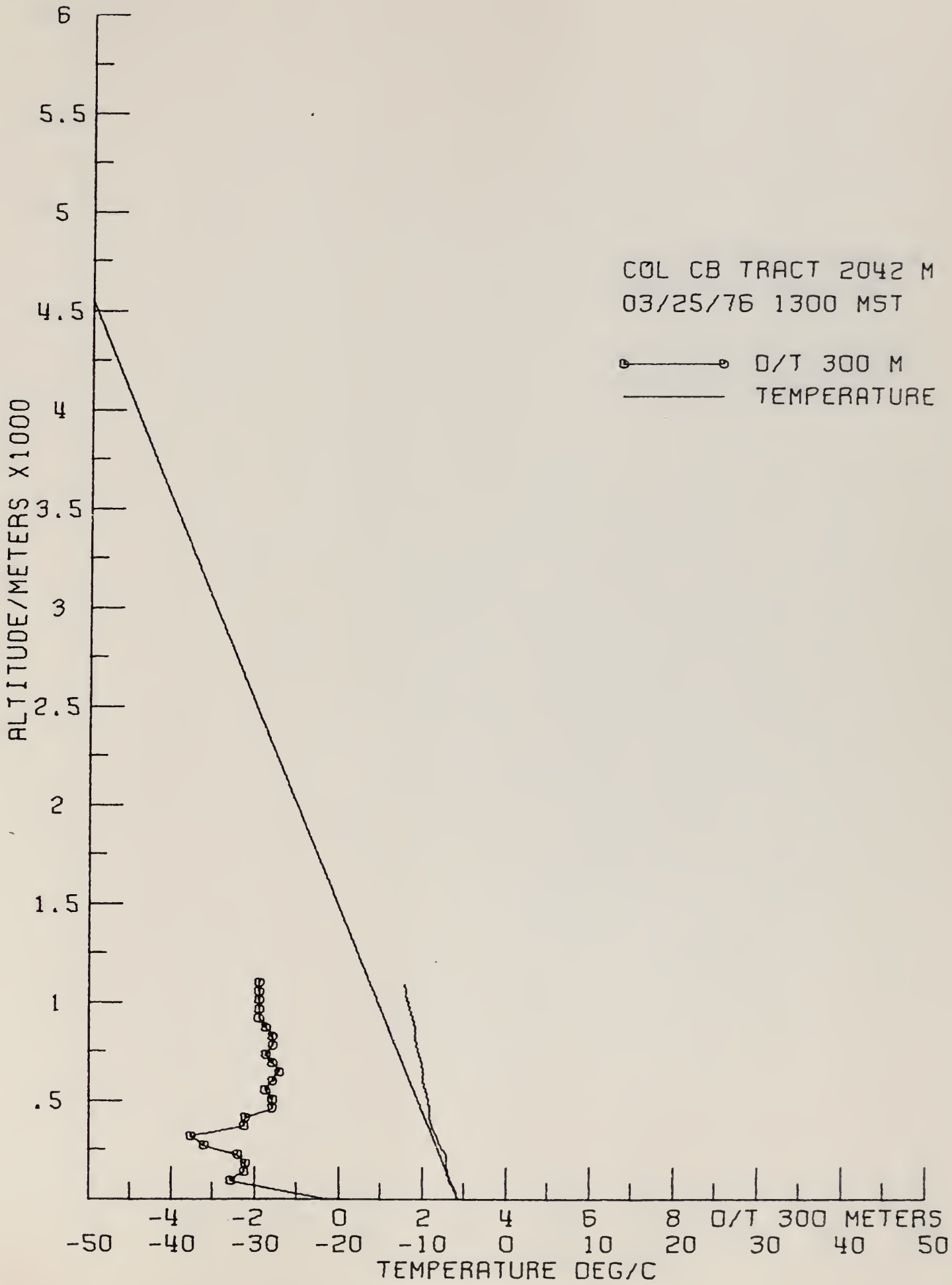
0 40 80 120 160 200 240 280 320 360
WIND DIRECTION (DEG)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03/25/76 1300 MST
D/T 300 M
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ALTITUDE/METERS X1000
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D/T 300 METERS
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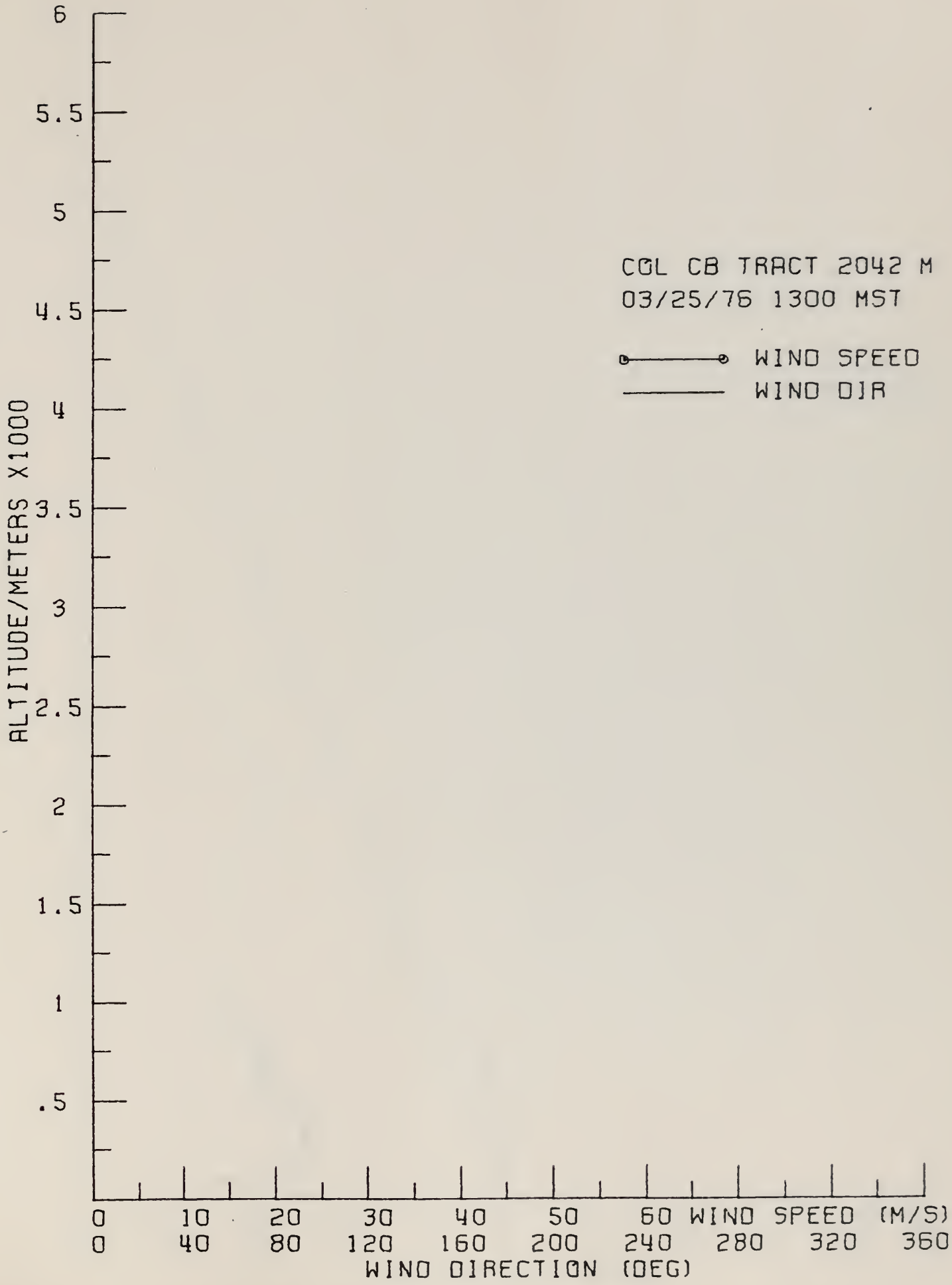
TEMPERATURE DEG/C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03/25/76 1300 MST
WIND SPEED
WIND DIR
ALTITUDE/METERS X1000
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4.5
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0 10 20 30 40 50 60 WIND SPEED (M/S)
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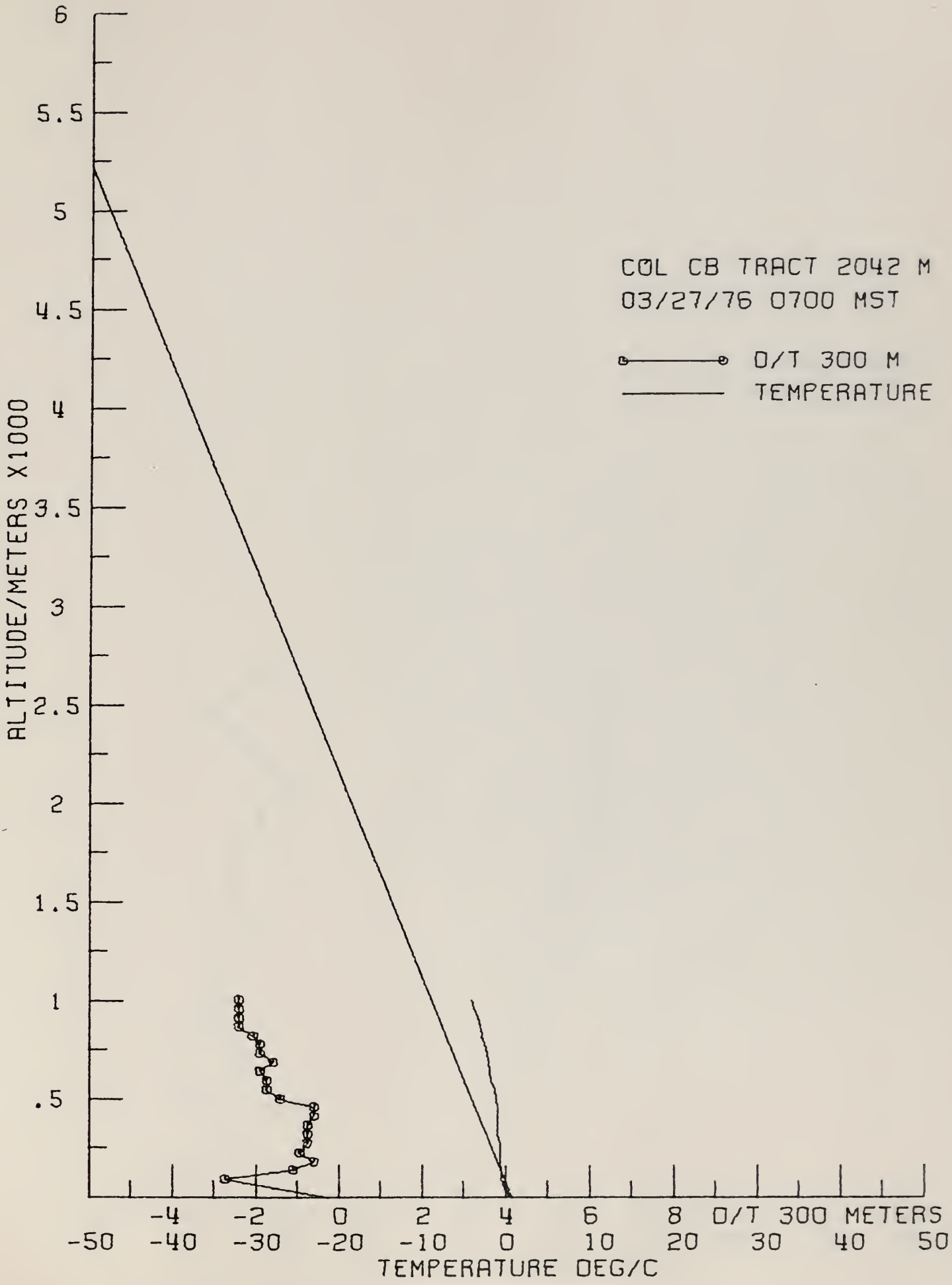
WIND DIRECTION (DEG)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03/27/76 0700 MST
O/T 300 M
TEMPERATURE
ALTITUDE/METERS X1000
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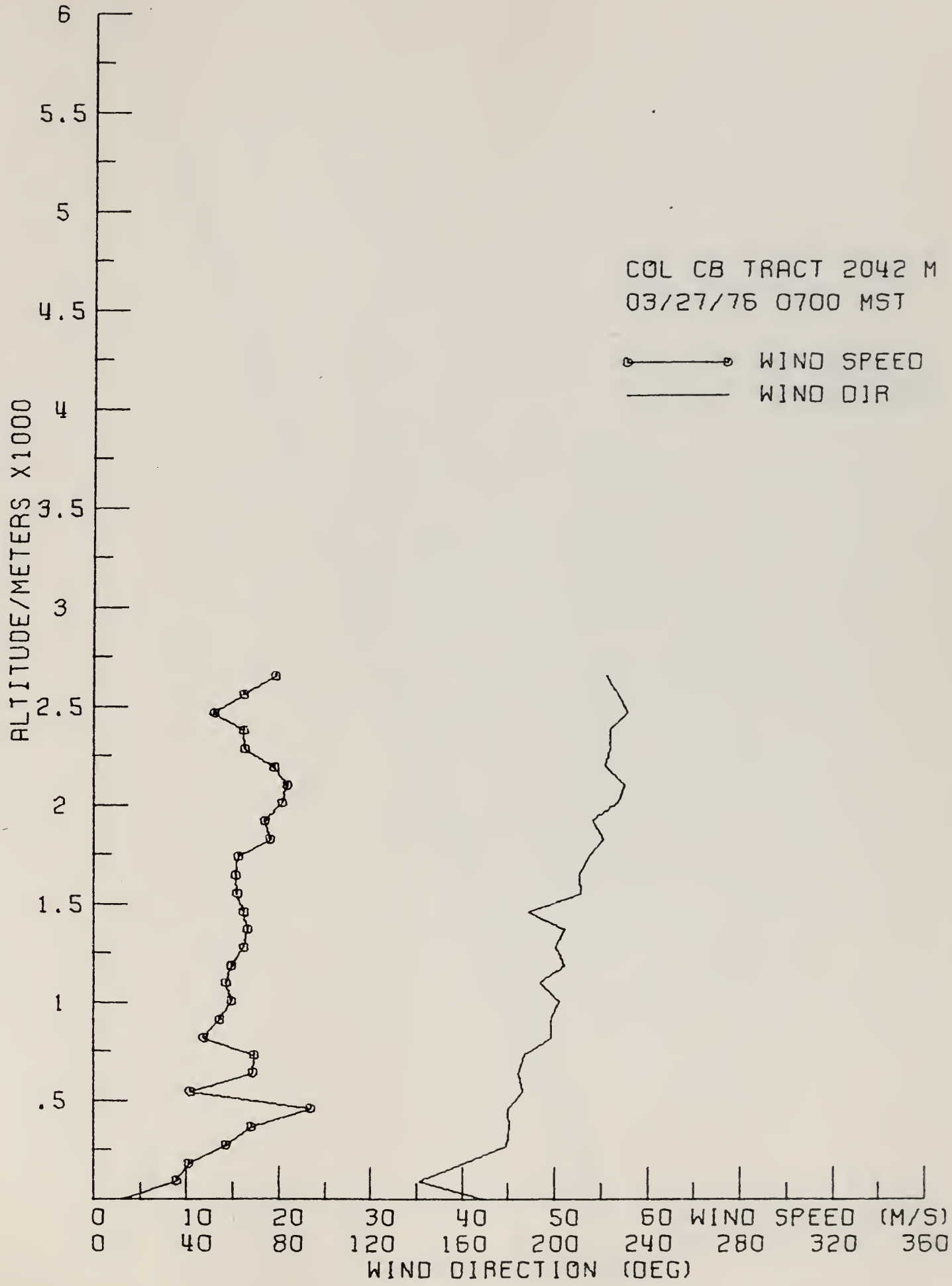
TEMPERATURE DEG/C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03/27/76 0700 MST
WIND SPEED
WIND DIR
ALTITUDE/METERS X1000
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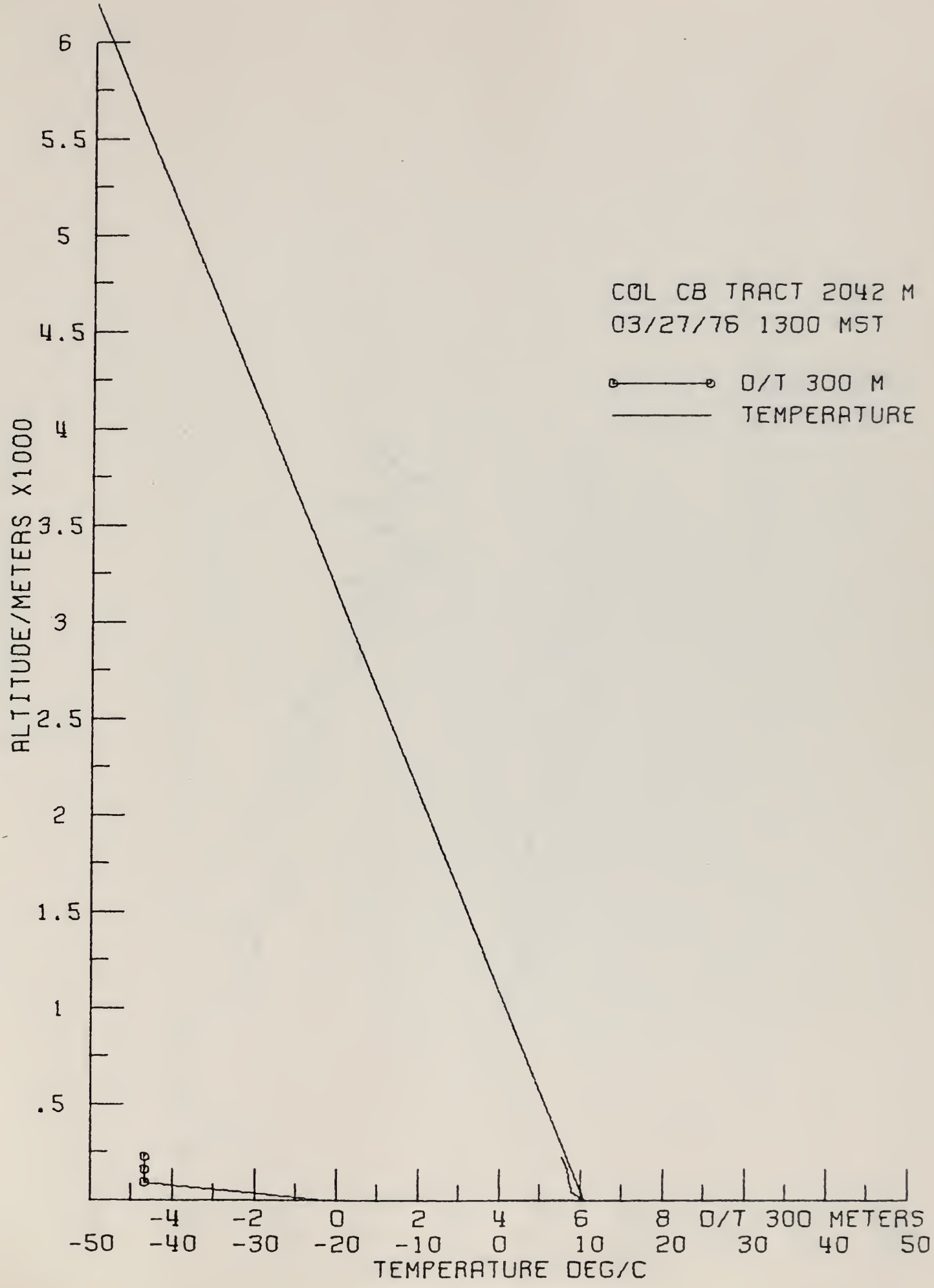
WIND DIRECTION (DEG)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03/27/76 1300 MST
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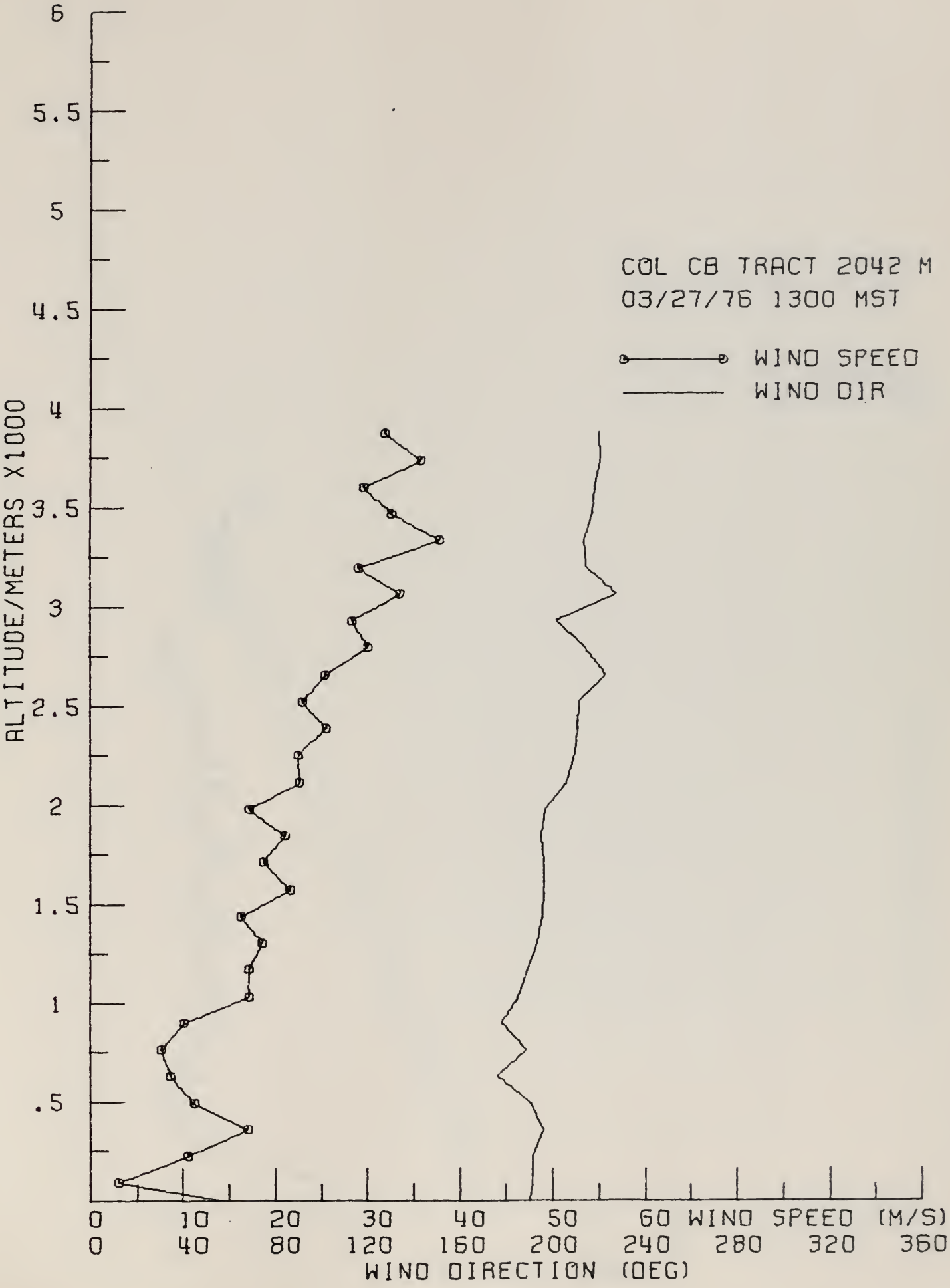
TEMPERATURE DEG/C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03/27/76 1300 MST
WIND SPEED
WIND DIR
ALTITUDE/METERS X1000
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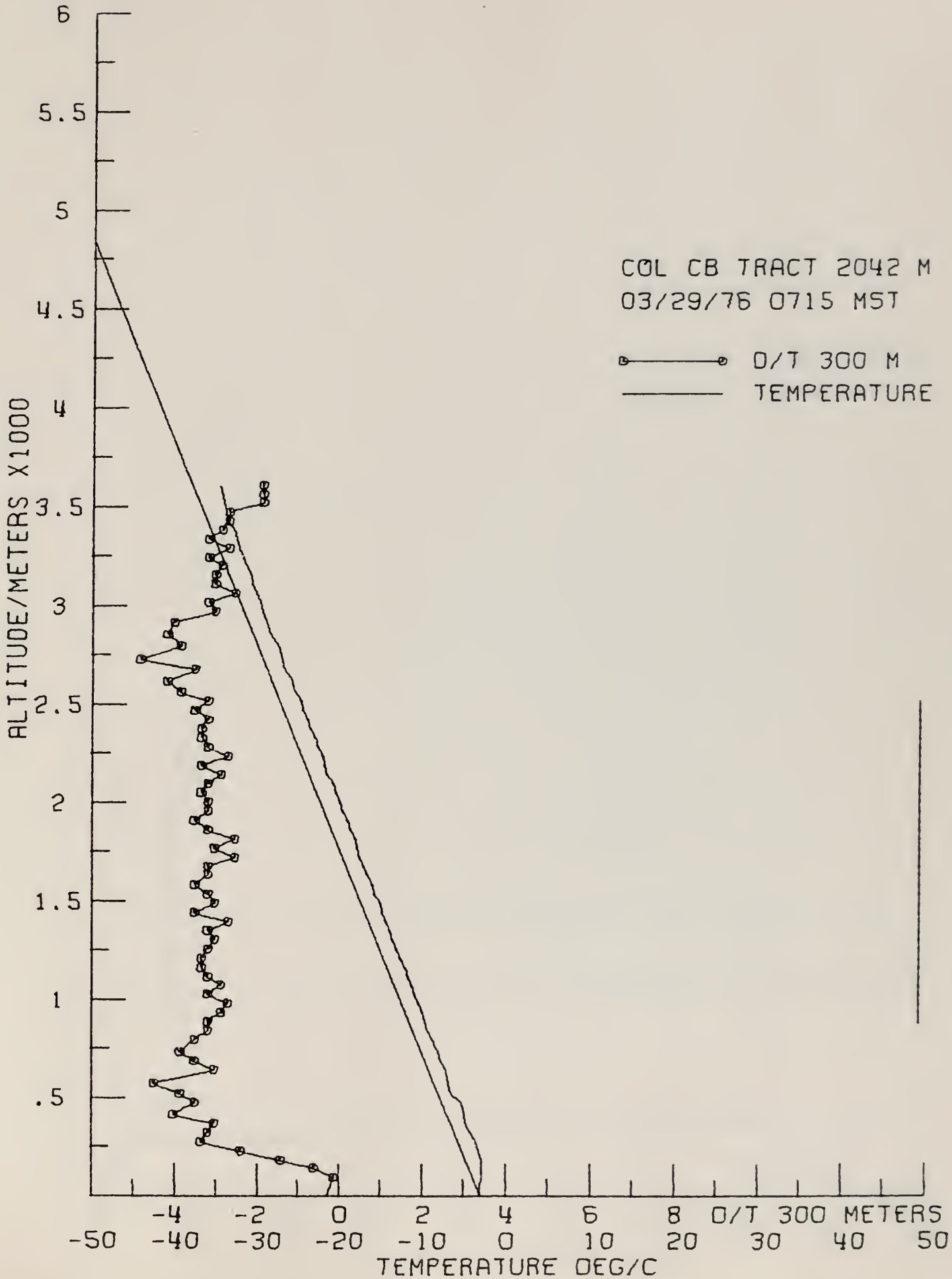
WIND DIRECTION (DEG)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03/29/76 0715 MST
O/T 300 M
TEMPERATURE
ALTITUDE/METERS X1000
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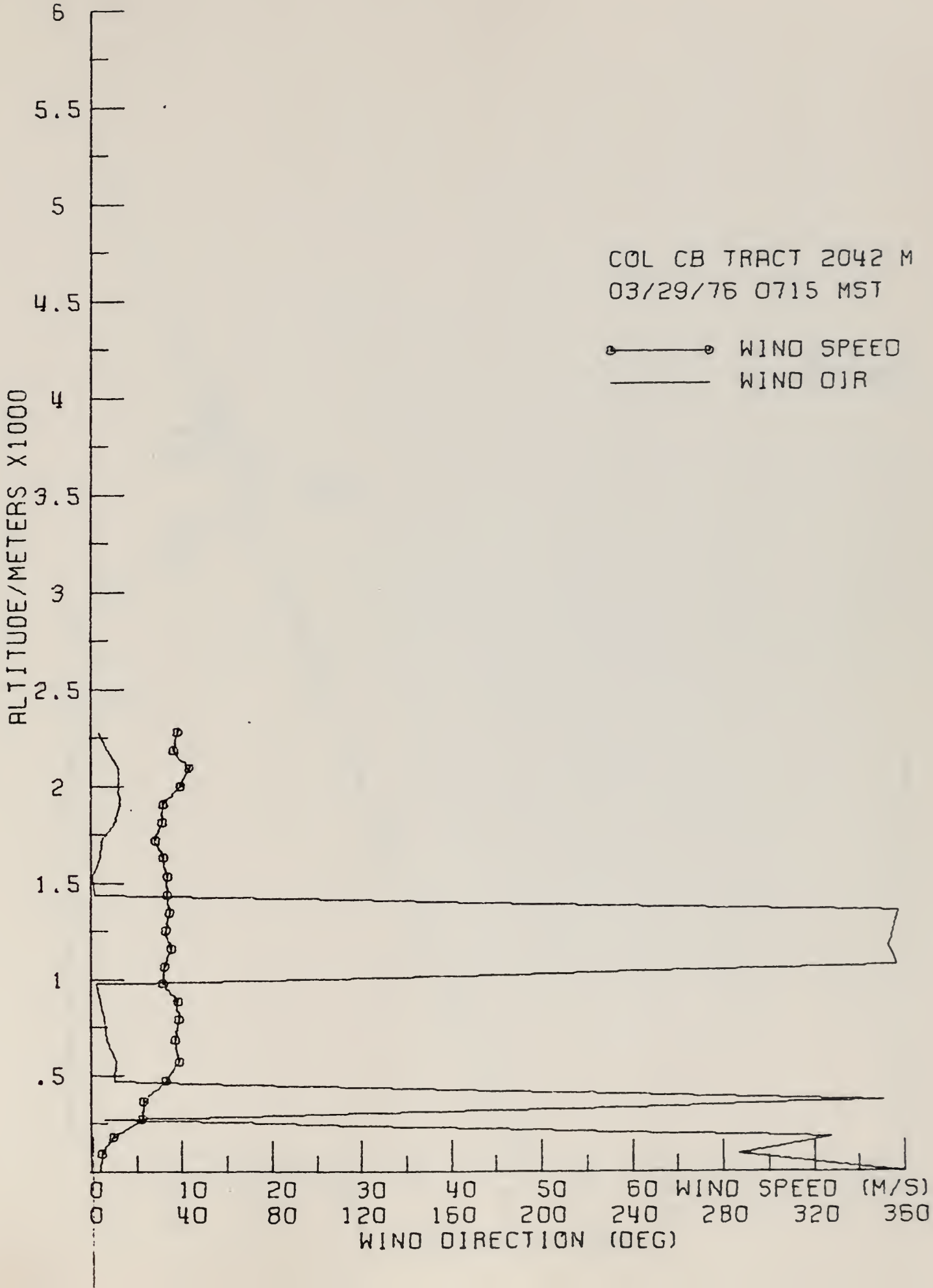
TEMPERATURE DEG/C


COL CB TRACT 2042 M
03/29/76 0715 MST
WIND SPEED
WIND DIR
ALTITUDE/METERS X1000
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4.5
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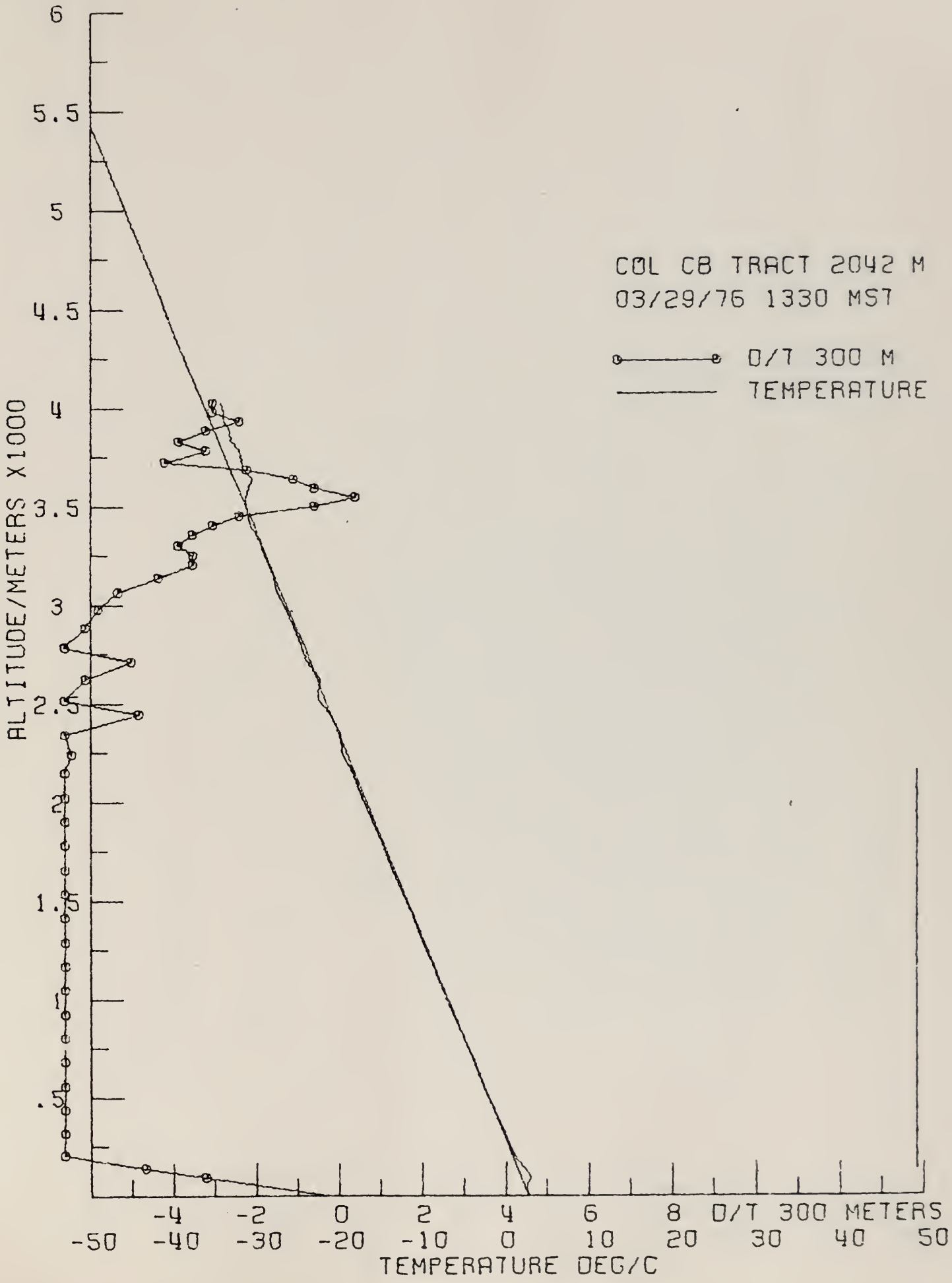
0 10 20 30 40 50 60 WIND SPEED (M/S)
0 40 80 120 160 200 240 280 320 360
WIND DIRECTION (DEG)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03/29/76 1330 MST
O/T 300 M
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ALTITUDE/METERS X1000
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4
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O/T 300 METERS
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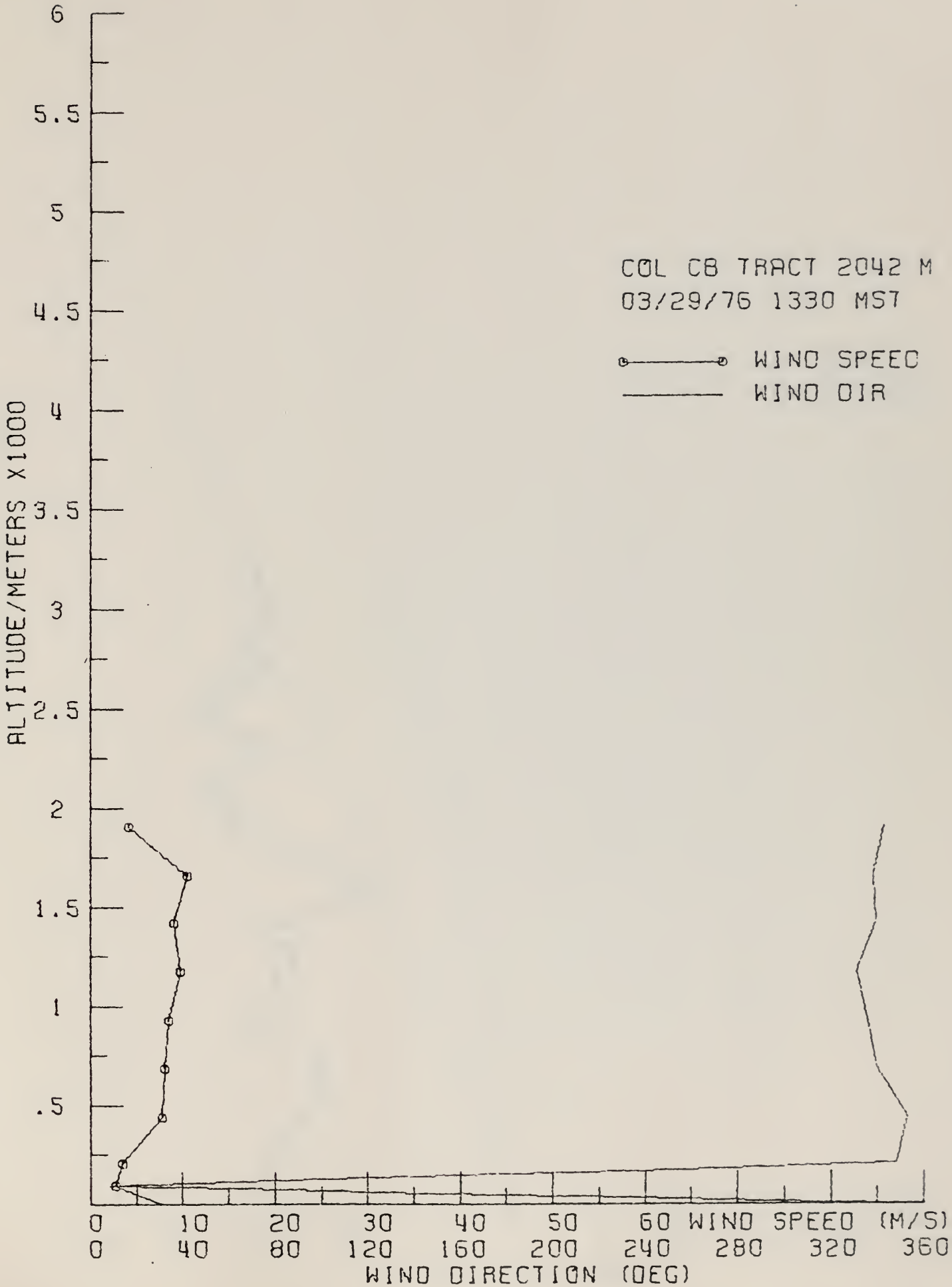
TEMPERATURE DEG/C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03/29/76 1330 MST
WIND SPEED
WIND DIR
ALTITUDE/METERS X1000
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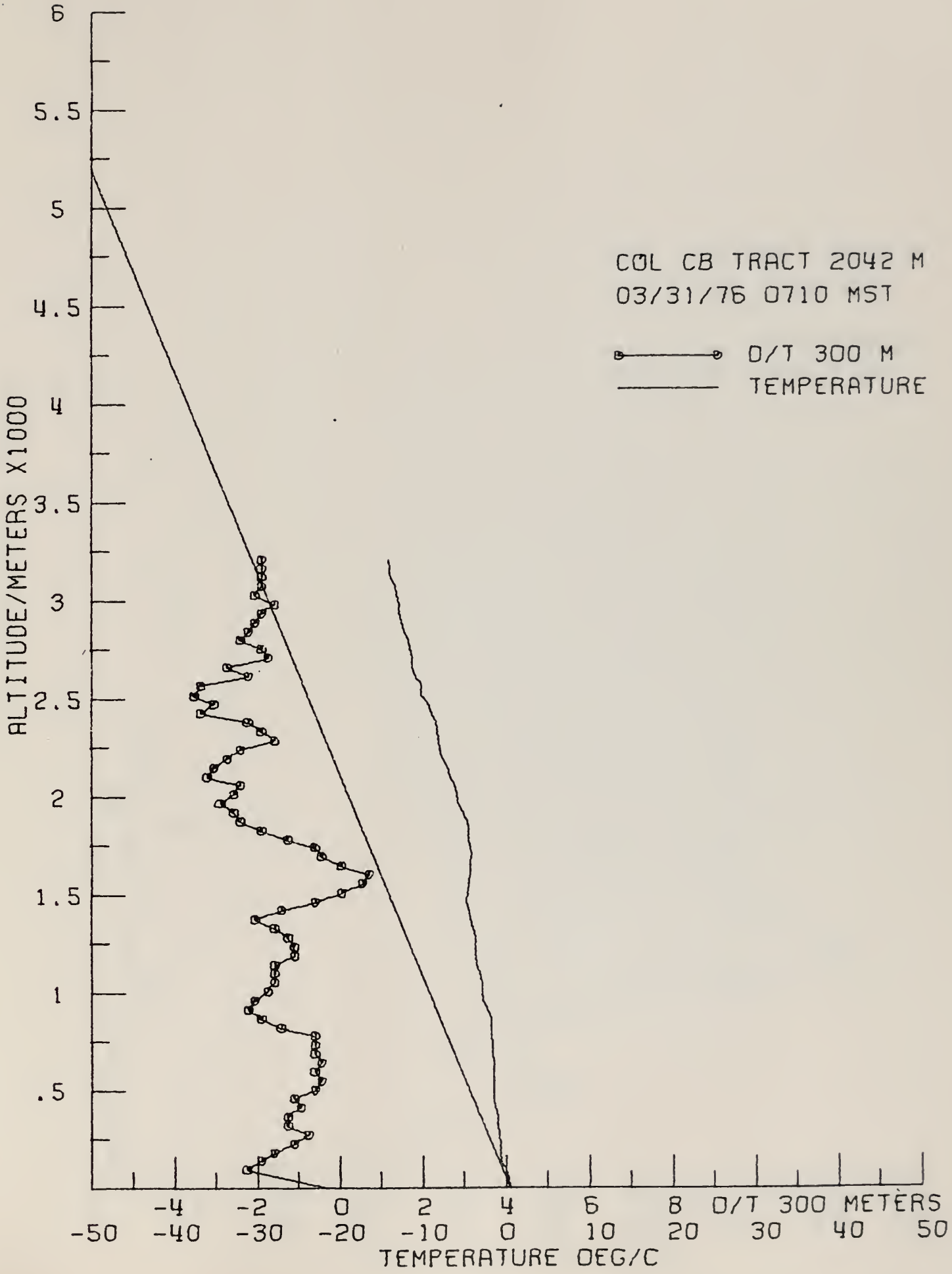
0 10 20 30 40 50 60 WIND SPEED (M/S)
0 40 80 120 160 200 240 280 320 360
WIND DIRECTION (DEG)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03/31/76 0710 MST
O/T 300 M
TEMPERATURE
ALTITUDE/METERS X1000
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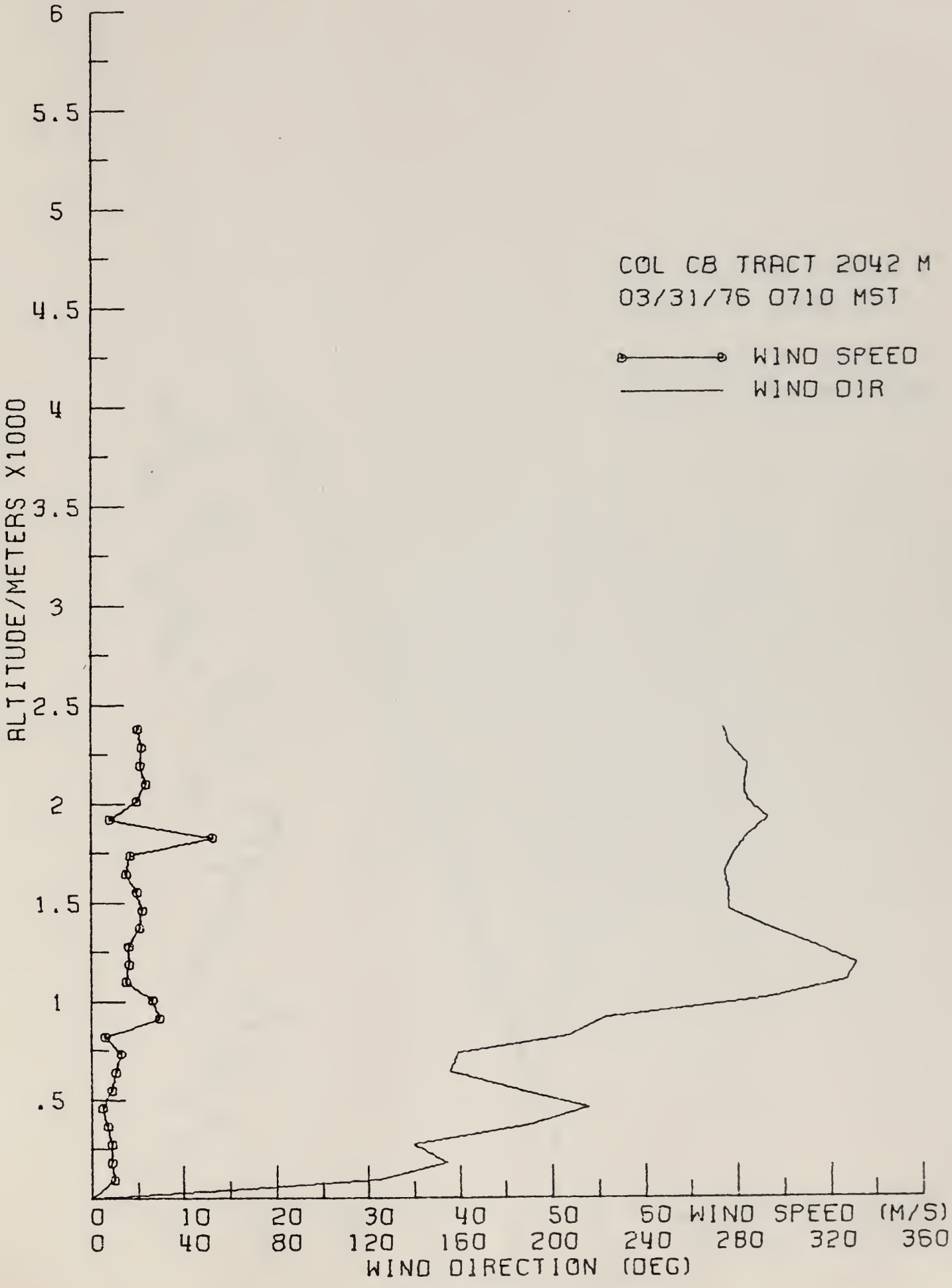
TEMPERATURE DEG/C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03/31/76 0710 MST
WIND SPEED
WIND DIR
ALTITUDE/METERS X1000
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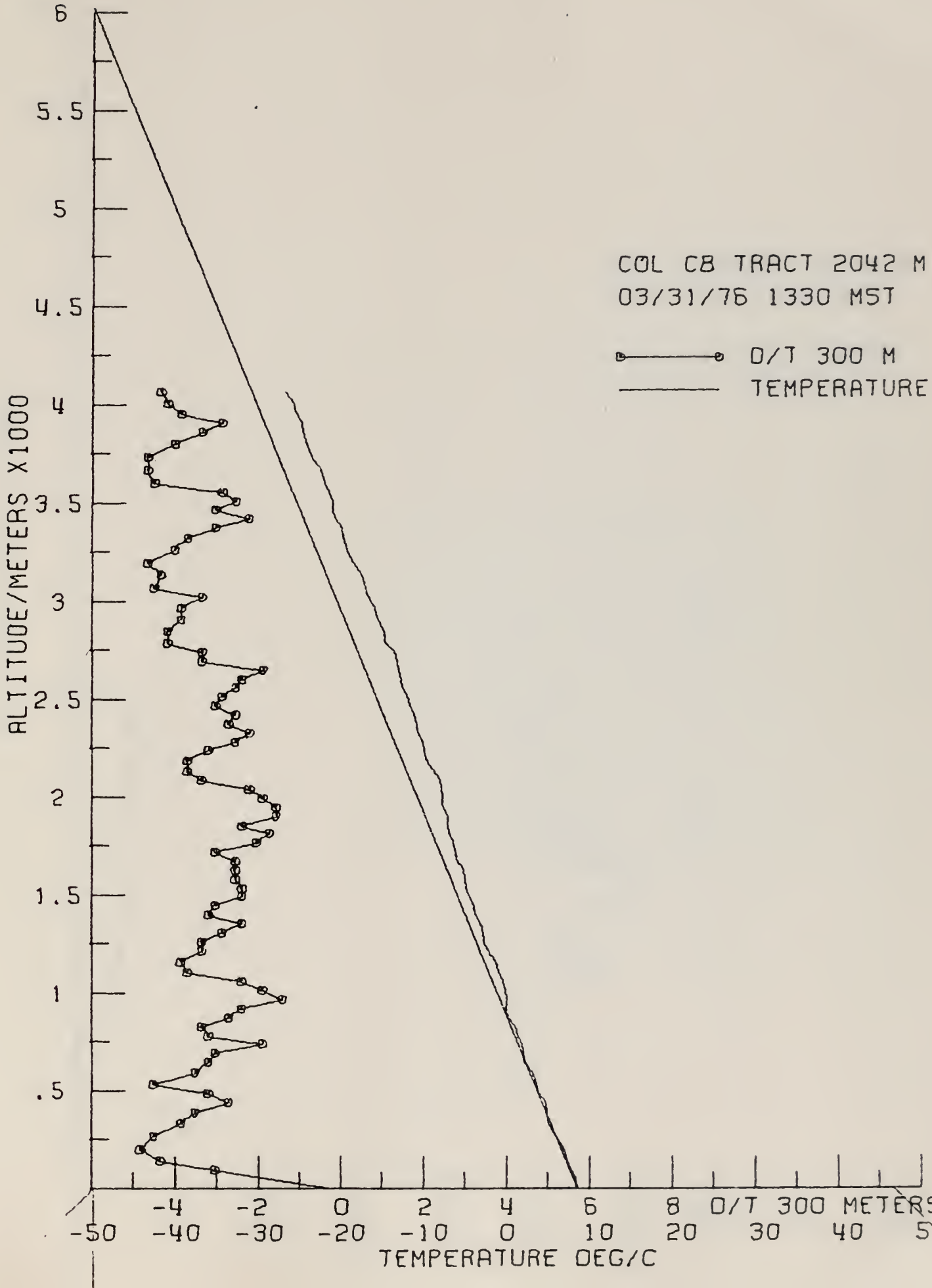
0 10 20 30 40 50 60 WIND SPEED (M/S)
0 40 80 120 160 200 240 280 320 360
WIND DIRECTION (DEG)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03/31/76 1330 MST
O/T 300 M
TEMPERATURE
ALTITUDE/METERS X1000
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O/T 300 METERS
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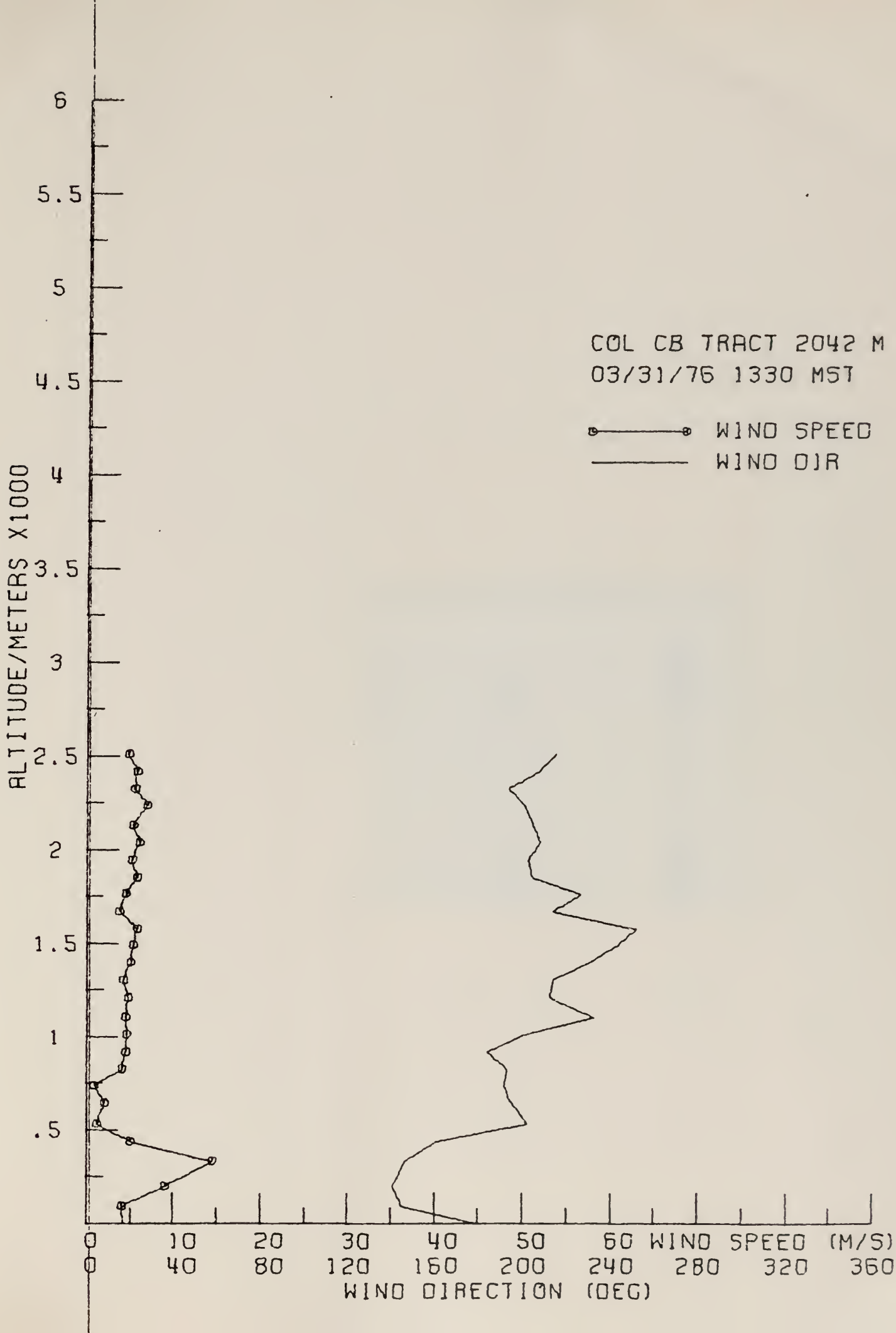
50
TEMPERATURE DEG/C


COL CB TRACT 2042 M
03/31/76 1330 MST
WIND SPEED
WIND DIR
ALTITUDE/METERS X1000
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0 10 20 30 40 50 60 WIND SPEED (M/S)
0 40 80 120 160 200 240 280 320 360
WIND DIRECTION (DEG)

Form 1279–3
(June 1984)

BORROWE

TN 859 .C2A1 C57

Monthly progres
[illegible] for the pe

DATE LOANED	BORROWER

USDI – BLM